

contain recommendations for remedial work when appropriate, and will be transmitted through the Division Engineer for review and to HQDA (DAEN-CWE) WASH DC 20314 for review and approval. For structures incurring no damage a simple statement to this effect will be all that is required in the report, unless seismic instrumentation at the project is activated. (See paragraph (h)(4) of this section.)

(g) *Training.* The dam safety training program covered by paragraph 6 of ER 1130-2-419 should include post-earthquake inspections and the types of damage operations personnel should look for.

(h) *Responsibilities.* (1) The Engineering Divisions of the District offices will formulate the inspection program, conduct the post-earthquake inspections, process and analyze the data of instrumental and other observations, evaluate the resulting condition of the structures, and prepare the inspection reports. The Engineering division is also responsible for planning special instrumentation felt necessary in selected structures under this program. Engineering Division is responsible for providing the training discussed in paragraph (g) of this section.

(2) The Construction Divisions of the District offices will be responsible for the installation of the earthquake instrumentation devices and for data collection if an earthquake occurs during the construction period.

(3) The Operations Division of the District offices will be responsible for the immediate assessment of earthquake damage and notifying the Chief, Engineering Division as discussed in paragraphs (f)(1) and (2). The Operations Division will also be responsible for earthquake data collection after the construction period in accordance with the instrumental observation programs, and will assist and participate in the post-earthquake inspections.

(4) The U.S. Geological Survey has the responsibility for servicing and collecting all data from strong motion instrumentation at Corps of Engineers dam projects following an earthquake occurrence. However, the U.S. Army Waterways Experiment Station (WES) is assigned the responsibility for analyzing and interpreting these earth-

quake data. Whenever a recordable earthquake record is obtained from seismic instrumentation at a Corps project, the Division will send a report of all pertinent instrumentation data to the Waterways Experiment Station, ATTN: WESGH, P.O. Box 631, Vicksburg, Mississippi 39180. The report on each project should include a complete description of the locations and types of instruments and a copy of the instrumental records from each of the strong motion machines activated. (Exempt from requirements control under paragraph 7-2v, AR 335-15).

(5) The Engineering Divisions of the Division offices will select structures for special instrumentation for earthquake effects, and will review and monitor the data collection, processing, evaluating, and inspecting activities. They will also be specifically responsible for promptly informing HQDA (DAEN-CWE) WASH DC 20314, when evaluation of the condition of the structure or analyses of the instrumentation data indicate the stability of a structure is questionable. (Exempt for requirements control under paragraph 7-2o, AR 335-15.)

(6) Division Engineers are responsible for issuing any supplementary regulations necessary to adapt the policies and instructions herein to the specific conditions within their Division.

(i) *Funding.* Funding for the evaluation and inspection program will be under the Appropriation 96X3123, Operations and Maintenance, General. Funds required for the inspections, including Travel and Per Diem costs incurred by personnel of the Division office or the Office, Chief of Engineers, will be from allocations made to the various projects for the fiscal year in which the inspection occurs.

[44 FR 43469, July 25, 1979. Redesignated at 60 FR 19851, Apr. 21, 1995]

§ 222.5 Water control management (ER 1110-2-240).

(a) *Purpose.* This regulation prescribes policies and procedures to be followed by the U.S. Army Corps of Engineers in carrying out water control management activities, including establishment of water control plans for Corps and non-Corps projects, as required by Federal laws and directives.

(b) *Applicability.* This regulation is applicable to all field operating activities having civil works responsibilities.

(c) *References.* Appendix A lists U.S. Army Corps of Engineers publications and sections of Federal statutes and regulations that are referenced herein.

(d) *Authorities—(1) U.S. Army Corps of Engineers projects.* Authorities for allocation of storage and regulation of projects owned and operated by the Corps of Engineers are contained in legislative authorization acts and referenced project documents. These public laws and project documents usually contain provisions for development of water control plans, and appropriate revisions thereto, under the discretionary authority of the Chief of Engineers. Some modifications in project operation are permitted under congressional enactments subsequent to original project authorization. Questions that require interpretations of authorizations affecting regulation of specific reservoirs will be referred to CDR USACE (DAEN-CWE-HW), WASH DC 20314, with appropriate background information and analysis, for resolution.

(2) *Non-Corps projects.* The Corps of Engineers is responsible for prescribing flood control and navigation regulations for certain reservoir projects constructed or operated by other Federal, non-Federal or private agencies. There are several classes of such projects: Those authorized by special acts of Congress; those for which licenses issued by the Federal Energy Regulatory Commission (formerly Federal Power Commission) provide that operation shall be in accordance with instructions of the Secretary of the Army; those covered by agreements between the operating agency and the Corps of Engineers; and those that fall under the terms of general legislative and administrative provisions. These authorities, of illustrative examples, are described briefly in Appendix B.

(e) *Terminology: Water control plans and reservoir regulation schedules.* (1) Water control plans include coordinated regulation schedules for project/system regulation and such additional provisions as may be required to collect, analyze and disseminate basic data, prepare detailed operating instructions, assure project safety and

carry out regulation of projects in an appropriate manner.

(2) The term “reservoir regulation schedule” refers to a compilation of operating criteria, guidelines, rule curves and specifications that govern basically the storage and release functions of a reservoir. In general, schedules indicate limiting rates of reservoir releases required during various seasons of the year to meet all functional objectives of the particular project, acting separately or in combination with other projects in a system. Schedules are usually expressed in the form of graphs and tabulations, supplemented by concise specifications.

(f) *General policies.* (1) Water control plans will be developed for reservoirs, locks and dams, reregulation and major control structures and inter-related systems to conform with objectives and specific provisions of authorizing legislation and applicable Corps of Engineers reports. They will include any applicable authorities established after project construction. The water control plans will be prepared giving appropriate consideration to all applicable Congressional Acts relating to operation of Federal facilities, i.e., Fish and Wildlife Coordination Act (Pub. L. 85-624), Federal Water Project Recreation Act-Uniform Policies (Pub. L. 89-72), National Environmental Policy Act of 1969 (Pub. L. 91-190), and Clean Water Act of 1977 (Pub. L. 95-217). Thorough analysis and testing studies will be made as necessary to establish the optimum water control plans possible within prevailing constraints.

(2) Necessary actions will be taken to keep approved water control plans up-to-date. For this purpose, plans will be subject to continuing and progressive study by personnel in field offices of the Corps of Engineers. These personnel will be professionally qualified in technical areas involved and familiar with comprehensive project objectives and other factors affecting water control. Organizational requirements for water control management are further discussed in ER 1110-2-1400.

(3) Water control plans developed for specific projects and reservoir systems will be clearly documented in appropriate water control manuals. These

manuals will be prepared to meet initial requirements when storage in the reservoir begins. They will be revised as necessary to conform with changing requirements resulting from developments in the project area and downstream, improvements in technology, new legislation and other relevant factors, provided such revisions comply with existing Federal regulations and established Corps of Engineers policy.

(4) Development and execution of water control plans will include appropriate consideration for efficient water management in conformance with the emphasis on water conservation as a national priority. The objectives of efficient water control management are to produce beneficial water savings and improvements in the availability and quality of water resulting from project regulation/operation. Balanced resource use through improved regulation should be developed to conserve as much water as possible and maximize all project functions consistent with project/system management. Continuous examination should be made of regulation schedules, possible need for storage reallocation (within existing authority and constraints) and to identify needed changes in normal regulation. Emphasis should be placed on evaluating conditions that could require deviation from normal release schedules as part of drought contingency plans (ER 1110-2-1941).

(5) Adequate provisions for collection, analysis and dissemination of basic data, the formulation of specific project regulation directives, and the performance of project regulation will be established at field level.

(6) Appropriate provisions will be made for monitoring project operations, formulating advisories to higher authorities, and disseminating information to others concerned. These actions are required to facilitate proper regulation of systems and to keep the public fully informed regarding all pertinent water control matters.

(7) In development and execution of water control plans, appropriate attention will be given to project safety in accordance with ER 1130-2-417 and ER 1130-2-419 so as to insure that all water impounding structures are operated for the safety of users of the facilities and

the general public. Care will be exercised in the development of reservoir regulation schedules to assure that controlled releases minimize project impacts and do not jeopardize the safety of persons engaged in activities downstream of the facility. Water control plans will include provisions for issuing adequate warnings or otherwise alerting all affected interests to possible hazards from project regulation activities.

(8) In carrying out water control activities, Corps of Engineers personnel must recognize and observe the legal responsibility of the National Weather Service (NWS), National Oceanic and Atmospheric Administration (NOAA), for issuing weather forecasts and flood warnings, including river discharges and stages. River forecasts prepared by the Corps of Engineers in the execution of its responsibilities should not be released to the general public, unless the NWS is willing to make the release or agrees to such dissemination. However, release to interested parties of factual information on current storms or river conditions and properly quoted NWS forecasts is permissible. District offices are encouraged to provide assistance to communities and individuals regarding the impact of forecasted floods. Typical advice would be to provide approximate water surface elevations at locations upstream and downstream of the NWS forecasting stream gages. Announcement of anticipated changes in reservoir release rates as far in advance as possible to the general public is the responsibility of Corps of Engineers water control managers for projects under their jurisdiction.

(9) Water control plans will be developed in concert with all basin interests which are or could be impacted by or have an influence on project regulation. Close coordination will be maintained with all appropriate international, Federal, State, regional and local agencies in the development and execution of water control plans. Effective public information programs will be developed and maintained so as to inform and educate the public regarding Corps of Engineers water control management activities.

(10) Fiscal year budget requests for water control management activities

will be prepared and submitted to the Office of the Chief of Engineers in accordance with requirements established in Engineer Circular on Annual Budget Requests for Civil Works Activities. The total annual costs of all activities and facilities that support the water control functions, (excluding physical operation of projects, but including flood control and navigation regulation of projects subject to 33 CFR 208.11) are to be reported. Information on the Water Control Data Systems and associated Communications Category of the Plant Replacement and Improvement Program will be submitted with the annual budget. Reporting will be in accordance with the annual Engineer Circular on Civil Works Operations and Maintenance, General Program.

(g) *Responsibilities: US Army Corps of Engineers projects*—(1) *Preparation of water control plans and manuals.* Normally, district commanders are primarily responsible for background studies and for developing plans and manuals required for reservoirs, locks and dams, reregulation and major control structures and interrelated systems in their respective district areas. Policies and general guidelines are prescribed by OCE engineer regulations while specific requirements to implement OCE guidance are established by the division commanders concerned. Master Water Control Manuals for river basins that include more than one district are usually prepared by or under direct supervision of division representatives. Division commanders are responsible for providing such management and technical assistance as may be required to assure that plans and manuals are prepared on a timely and adequate basis to meet water control requirements in the division area, and for pertinent coordination among districts, divisions, and other appropriate entities.

(2) *Public involvement and information*—(i) *Public meeting and public involvement.* The Corps of Engineers will sponsor public involvement activities, as appropriate, to appraise the general public of the water control plan. In developing or modifying water control manuals, the following criteria is applicable.

(A) Conditions that require public involvement and public meetings include: Development of a new water control manual that includes a water control plan; or revision or update of a water control manual that changes the water control plan.

(B) Revisions to water control manuals that are administratively or informational in nature and that do not change the water control plan do not require public meetings.

(C) For those conditions described in paragraph (g)(2)(i)(A) of this section, the Corps will provide information to the public concerning proposed water control management decisions at least 30 days in advance of a public meeting. In so doing, a separate document(s) should be prepared that explains the recommended water control plan or change, and provides technical information explaining the basis for the recommendation. It should include a description of its impacts (both monetary and nonmonetary) for various purposes, and the comparisons with alternative plans or changes and their effects. The plan or manual will be prepared only after the public involvement process associated with its development or change is complete.

(D) For those conditions described in paragraph (g)(2)(i)(A) of this section, the responsible division office will send each proposed water control manual to the Army Corps of Engineers Headquarters, Attn: CECW-EH-W for review and comments prior to approval by the responsible division office.

(ii) *Information availability.* The water control manual will be made available for examination by the general public upon request at the appropriate office of the Corps of Engineers. Public notice shall be given in the event of occurring or anticipated significant changes in reservoir storage or flow releases. The method of conveying this information shall be commensurate with the urgency of the situation and the lead time available.

(3) *Authority for approval of plans and manuals.* Division commanders are delegated authority for approval of water control plans and manuals, and associated activities.

(4) *OCE role in water control activities.* OCE will establish policies and guidelines applicable to all field offices and for such actions as are necessary to assure a reasonable degree of consistency in basic policies and practices in all Division areas. Assistance will be provided to field offices during emergencies and upon special request.

(5) *Methods improvement and staff training.* Division and district commanders are responsible for conducting appropriate programs for improving technical methods applicable to water control activities in their respective areas. Suitable training programs should be maintained to assure a satisfactory performance capability in water control activities. Appropriate coordination of such programs with similar activities in other areas will be accomplished to avoid duplication of effort, and to foster desirable exchange of ideas and developments. Initiative in re-evaluating methods and guidelines previously established in official documents referred to in paragraph (e) of this section is encouraged where needs are evident. However, proposals for major deviations from basic concepts, policies and general practices reflected in official publications will be submitted to CDR USACE (DAEN-CWE) WASH DC 20314 for concurrence or comment before being adopted for substantial application in actual project regulation at field level.

(h) *Directives and technical instruction manuals.* (1) Directives issued through OCE Engineer Regulations will be used to foster consistency in policies and basic practices. They will be supplemented as needed by other forms of communication.

(2) Engineering Manuals (EM) and Engineer Technical Letters (ETL) are issued by OCE to serve as general guidelines and technical aids in developing water control plans and manuals for individual projects or systems.

(3) EM 1110-2-3600 discusses principles and concepts involved in developing water control plans. Instructions relating to preparation of "Water Control Manuals for specific projects" are included. EM 1110-2-3600 should be used as a general guide to water control activities. The instructions are sufficiently flexible to permit adaptation to

specific regions. Supplemental information regarding technical methods is provided in numerous documents distributed to field offices as "hydrologic references."

(4) Special assistance in technical studies is available from the Hydrologic Engineering Center, Corps of Engineers, 609 Second Street, Davis, California 95616 and DAEN-CWE-HW.

(i) *Water control manuals for US Army Corps of Engineers projects.* (1) As used herein, the term "water control manual" refers to manuals that relate primarily to the functional regulation of an individual project or system of projects. Although such manuals normally include background information concerning physical features of projects, they do not prescribe rules or methods for physical maintenance or care of facilities, which are covered in other documents. (References 15 and 23, Appendix A.)

(2) Water control manuals prepared in substantially the detail and format specified in instructions referred to in paragraph 8 are required for all reservoirs under the supervision of the Corps of Engineers, regardless of the purpose or size of the project. Water Control manuals are also required for lock and dam, reregulation and major control structure projects that are physically regulated by the Corps of Engineers. Where there are several projects in a drainage basin with interrelated purposes, a "Master Manual" shall be prepared. The effects of non-Corps projects will be considered in appropriate detail, including an indication of provisions for interagency coordination.

(3) "Preliminary water control manuals," for projects regulated by the Corps of Engineers should contain regulation schedules in sufficient detail to establish the basic plan of initial project regulation.

(4) As a general rule, preliminary manuals should be superseded by more detailed interim or "final" manuals within approximately one year after the project is placed in operation.

(5) Each water control manual will contain a section on special regulations to be conducted during emergency situations, including droughts.

Preplanned operations and coordination are essential to effective relief or assistance.

(6) One copy of all water control manuals and subsequent revisions shall be forwarded to DAEN-CWE-HW for file purposes as soon as practicable after completion, preferably within 30 days from date of approval at the division level.

(j) *Policies and requirements for preparing regulations for non-Corps projects.*

(1) Division and district commanders will develop water control plans as required by section 7 of the 1944 Flood Control Act, the Federal Power Act and section 9 of Pub. L. 436-83 for all projects located within their areas, in conformance with ER 1110-2-241, 33 CFR part 208. That regulation prescribes the policy and general procedures for regulating reservoir projects capable of regulation for flood control or navigation, except projects owned and operated by the Corps of Engineers; the International Boundary and Water Commission, United States and Mexico; those under the jurisdiction of the International Joint Commission, United States and Canada, and the Columbia River Treaty. ER 1110-2-241, 33 CFR part 208 permits the promulgation of specific regulations for a project in compliance with the authorizing acts, when agreement on acceptable regulations cannot be reached between the Corps Engineers and the owners. Appendix B provides a summary of the Corps of Engineers responsibilities for prescribing regulations for non-Corps reservoir projects.

(2) Water control plans will be developed and processed as soon as possible for applicable projects already completed and being operated by other entities, including projects built by the Corps of Engineers and turned over to others for operation.

(3) In so far as practicable, water control plans for non-Corps projects should be developed in cooperation with owning/operating agencies involved during project planning stages. Thus, tentative agreements on contents, including pertinent regulation schedules and diagrams, can be accomplished prior to completion of the project.

(4) The magnitude and nature of storage allocations for flood control or

navigation purposes in non-Corps projects are governed basically by conditions of project authorizations or other legislative provisions and may include any or all of the following types of storage assignments:

(i) Year-round allocations: Storage remains the same all year.

(ii) Seasonal allocations: Storage varies on a fixed seasonal basis.

(iii) Variable allocations of flood control from year to year, depending on hydrologic parameters, such as snow cover.

(5) Water control plans should be developed to attain maximum flood control or navigation benefits, consistent with other project requirements, from the storage space provided for these purposes. When reservoir storage capacity of the category referred to in paragraph (j)(4)(iii) is utilized for flood control or navigation, jointly with other objectives, the hydrologic parameters and related rules developed under provisions of ER 1110-2-241, 33 CFR part 208 should conform as equitably as possible with the multiple-purpose objectives established in project authorizations and other pertinent legislation.

(6) Storage allocations made for flood control or navigation purposes in non-Corps projects are not subject to modifications by the Corps of Engineers as a prerequisite for prescribing 33 CFR 208.11 regulations. However, regulations developed for use of such storage should be predicated on a mutual understanding between representatives of the Corps and the operating agency concerning the conditions of the allocations in order to assure reasonable achievement of basic objectives intended. In the event field representatives of the Corps of Engineers, and the operating agency are unable to reach necessary agreements after all reasonable possibilities have been explored, appropriate background explanations and recommendations should be submitted to DAEN-CWE-HW for consideration.

(7) The Chief of Engineers is responsible for prescribing regulations for use of flood control or navigation storage and/or project operation under the provisions of the referenced legislative acts. Accordingly, any regulations established should designate the division/

district commander who is responsible to the Chief of Engineers as the representative to issue any special instructions required under the regulation. However, to the extent practicable, project regulations should be written to permit operation of the project by the owner without interpretations of the regulations by the designated representative of the Commander during operating periods.

(8) Responsibility for compliance with 33 CFR 208.11 regulations rests with the operating agency. The division or district commander of the area in which the project is located will be kept informed regarding project operations to verify reasonable conformance with the regulations. The Chief of Engineers or his designated representative may authorize or direct deviation from the established water control plan when conditions warrant such deviation. In the event unapproved deviations from the prescribed regulations seem evident, the division or district commander concerned will bring the matter to the attention of the operating agency by appropriate means.

If corrective actions are not taken promptly, the operating agency should be notified of the apparent deviation in writing as a matter of record. Should an impasse arise, in that the project owner or the designated operating entity persists in noncompliance with regulations prescribed by the Corps of Engineers, the Office of Chief Counsel should be advised through normal channels and requested to take necessary measures to assure compliance.

(9) Regulations should contain information regarding the required exchange of basic data between the representative of the operating agency and the U.S. Army Corps of Engineers, that are pertinent to regulation and coordination of interrelated projects in the region.

(10) All 33 CFR 208.11 regulations shall contain provisions authorizing the operating agency to temporarily deviate from the regulations in the event that it is necessary for emergency reasons to protect the safety of the dam, to avoid health hazards, and to alleviate other critical situations.

(k) *Developing and processing regulations for non-Corps projects.* Guidelines

concerning technical studies and development of regulations are contained in ER 1110-2-241, 33 CFR part 208 and EM 1110-2-3600. Appendix C of this regulation summarizes steps normally followed in developing and processing regulations for non-Corps projects.

(l) *Water control during project construction stage.* Water control plans discussed in preceding paragraphs are intended primarily for application after the dam, spillway and outlet structures; major relocations; land acquisitions, administrative arrangements and other project requirements have reached stages that permit relatively normal project regulation. With respect to non-Corps projects, regulations normally become applicable when water control agreements have been signed by the designated signatories, subject to special provisions in specific cases. In some instances, implementation of regulations has been delayed by legal provisions, contract limitations, or other considerations. These delays can result in loss of potential project benefits and possible hazards. Accordingly, it is essential that appropriate water control and contingency plans be established for use from the date any storage may accumulate behind a partially completed dam until the project is formally accepted for normal operations. Division commanders shall make certain that construction-stage regulation plans are established and maintained in a timely and adequate manner for projects under the supervision of the Corps of Engineers. In addition, the problems referred to should be discussed with authorities who are responsible for non-Corps projects, with the objective of assuring that such projects operate as safely and effectively as possible during the critical construction stage and any period that may elapse before regular operating arrangements have been established. These special regulation plans should include consideration for protection of construction operations; safety of downstream interests that might be jeopardized by failure of partially completed embankments; requirements for minimizing adverse effects on partially completed relocations or incomplete land acquisition; and the need for obtaining benefits from project storage

that can be safely achieved during the construction and early operation period.

(m) *Advisories to OCE regarding water control activities*—(1) *General*. Division commanders will keep the Chief of Engineers currently informed of any unusual problems or activities associated with water control that impact on his responsibilities.

(2) *Annual division water control management report (RCS DAEN-CWE-16(R1))*. Division commanders will submit an annual report on water control management activities within their division. The annual report will be submitted to (DAEN-CWE-HW) by 1 February each year and cover significant activities of the previous water year and a description of activities to be accomplished for the current year. Funding information for water control activities will be provided in the letter of transmittal for in-house use only. The primary objective of this summary is to keep the Chief of Engineers informed regarding overall water management activities Corps-wide, thus providing a basis to carry out OCE responsibilities set forth in paragraph (g)(4) of this section.

(3) *Status of water control manuals*. A brief discussion shall be prepared annually by each division commander, as a separate section of the annual report on water control management activities discussed in paragraph (m)(2) of this section listing all projects currently in operation in his area, or expected to begin operation within one-year, with a designation of the status of water control manuals. The report should also list projects for which the Corps of Engineers is responsible for prescribing regulations, as defined in ER 1110-2-241, 33 CFR part 208.

(4) *Monthly water control charts (RCS DAEN-CWE-6 (R1))*. A monthly record of reservoirs/lakes operated by the Corps of Engineers and other agencies, in accordance with 33 CFR 208.11, will be promptly prepared and maintained by district/division commanders in a form readily available for transmittal to the Chief of Engineers, or others, upon request. Record data may be prepared in either graphical form as shown in EM 1110-2-3600, or tabular

form as shown in the sample tabulation in Appendix D.

(5) *Annual division water quality reports (RCS DAEN-CWE-15)*. By Executive Order 12088, the President ordered the head of each Executive Agency to be responsible for ensuring that all necessary actions are taken for prevention, control, and abatement of environmental pollution with respect to Federal facilities and activities under control of the agency. General guidance is provided in references 24 and 25, Appendix A, for carrying out this agency's responsibility. Annual division water quality reports are required by reference 24, Appendix A. The report is submitted in two parts. The first part addresses the division Water quality management plan while the second part presents specific project information. A major objective of this report is to summarize information pertinent to water quality aspects of overall water management responsibilities. The annual division water quality report may be submitted along with the annual report on water control management activities discussed in paragraph 13b above.

(6) *Master plans for water control data systems (RCS DAEN-CWE-21)*. (i) A water control data system is all of the equipment within a division which is used to acquire, process, display and distribute information for real-time project regulation and associated inter-agency coordination. A subsystem is all equipment as defined previously within a district. A network is all equipment as defined previously which is used to regulate a single project or a group of projects which must be regulated interdependently.

(ii) Master plans for water control data systems and significant revisions thereto will be prepared by division water control managers and submitted to DAEN-CWE-HW by 1 February each year for review and approval of engineering aspects. Engineering approval does not constitute funding approval. After engineering approval is obtained, equipment in the master plan is eligible for consideration in the funding processes described in ER 1125-2-301

and engineering circulars on the annual budget request for civil works activities. Master plans will be maintained current and will:

(A) Outline the system performance requirements, including those resulting from any expected expansions of Corps missions.

(B) Describe the extent to which existing facilities fulfill performance requirements.

(C) Describe alternative approaches which will upgrade the system to meet the requirements not fulfilled by existing facilities, or are more cost effective than the existing system.

(D) Justify and recommend a system considering timeliness, reliability, economics and other factors deemed important.

(E) Delineate system scope, implementation schedules, proposed annual capital expenditures by district, total costs, and sources of funding.

(iii) Modified master plans should be submitted to DAEN-CWE-HW by 1 February, whenever revisions are required, to include equipment not previously approved or changes in scope or approach. Submittal by the February date will allow adequate time for OCE review and approval prior to annual budget submittals.

(iv) Division commanders are delegated authority to approve detailed plans for subsystems and networks of approved master plans. Plans approved by the division commander should meet the following conditions:

(A) The plan conforms to an approved master plan.

(B) The equipment is capable of functioning independently.

(C) An evaluation of alternatives has been completed considering reliability, cost and other important factors.

(D) The plan is economically justified, except in special cases where legal requirements dictate performance standards which cannot be economically justified.

(v) Copies of plans approved by the division commander shall be forwarded to appropriate elements in OCE in support of funding requests and to obtain approval of Automatic Data Processing Equipment (ADPE), when applicable.

(vi) Water control data systems may be funded from Plant Revolving Fund;

O&M General; Flood Control, MR&T, and Construction, General. Funding for water control equipment that serves two or more projects will be from Plant Revolving Fund in accordance with ER 1125-2-301. District and division water control managers will coordinate plant revolving fund requests with their respective Plant Replacement and Improvement Program (PRIP) representatives following guidance provided in ER 1125-2-301. Budget funding requests under the proper appropriation title should be submitted only if the equipment is identified in an approved master plan.

(vii) Justification for the Automatic Data Processing Equipment (ADPE) aspects of water control data systems must conform to AR 18-1, Appendix I or J as required. The "Funding for ADPE" paragraph in Appendixes I and J must cite the source of funds and reference relevant information in the approved master plan and detailed plan.

(viii) Division water control managers will submit annual letter summaries of the status of their respective water control systems and five-year plan for improvements. These summaries will be submitted to DAEN-CWE by 1 June for coordination with DAEN-CWO, CWB and DSZ-A, prior to the annual budget request. Summaries should not be used to obtain approval of significant changes in master plans. Sources of funding for all items for each district and for the division should be delineated so that total system expenditures and funding requests are identified. Changes in the master plan submitted 1 February should be documented in this letter summary if the changes were approved.

(7) *Summary of runoff potentials in current season (RCS DAEN-CWO-2).* (i) The Chief of Engineers and staff require information to respond to inquiries from members of Congress and others regarding runoff potentials. Therefore, the division commander will submit a snowmelt runoff and flood potential letter report covering the snow accumulation and runoff period, beginning generally in February and continuing monthly, until the potential no longer exist. Dispatch of supplemental reports will be determined by the urgencies of situations as they occur. The reports

will be forwarded as soon as hydrologic data are available, but not later than the 10th of the month. For further information on reporting refer to ER 500–1–1, 33 CFR part 203.

(ii) During major drought situations or low-flow conditions, narrative summaries of the situation should be furnished to alert the Chief of Engineers regarding the possibility of serious runoff deficiencies that are likely to call for actions associated with Corps of Engineers reservoirs.

(iii) The reports referred to in paragraphs (m)(7) (i) and (ii) of this section will include general summaries regarding the status of reservoir storage, existing and forecasted at the time of the reports.

(8) *Reports on project operations during flood emergencies.* Information on project regulations to be included in reports submitted to the Chief of Engineers during flood emergencies in accordance with ER 500–1–1 include rate of inflow and outflow in CFS, reservoir levels, predicted maximum level and anticipated date, and percent of flood control storage utilized to date. Maximum use should be made of computerized communication facilities in reporting project status to DAEN-CWO-E/CWE-HW in accordance with the requirements of ER 500–1–1, 33 CFR part 203.

(9) *Post-flood summaries of project regulation.* Project regulation effects including evaluation of the stage reductions at key stations and estimates of damages prevented by projects will be included in the post flood reports required by ER 500–1–1, 33 CFR part 203.

(n) *Water Control Management Boards.* (1) The Columbia River Treaty Permanent Engineering Board was formed in accordance with the Columbia River Treaty with Canada. This board, composed of U.S. and Canadian members, oversees the implementation of the Treaty as carried out by the U.S. and Canadian Entities.

(2) The Mississippi River Water Control Management Board was established by ER 15–2–13. It consists of the Division Commanders from LMVD, MRD, NCD, ORD, and SWD with the Director of Civil Works serving as chairman. The purposes of the Board are:

(i) To provide oversight and guidance during the development of basin-wide management plans for Mississippi River Basin projects for which the US Army Corps of Engineers has operation/regulation responsibilities.

(ii) To serve as a forum for resolution of water control problems among US Army Corps of Engineers Divisions within the Mississippi River Basin when agreement is otherwise unobtainable.

(o) *List of projects.* Projects owned and operated by the Corps of Engineers subject to this regulation are listed with pertinent data in Appendix E. This list will be updated periodically to include Corps projects completed in the future. Federal legislation, Federal regulations and local agreements have given the Corps of Engineers wide responsibilities for operating projects which it does not own. Non-Corps projects subject to this regulation are included in Appendix A of ER 1110–2–241.

APPENDIX A TO § 222.5—REFERENCES

1. The Federal Power Act, Pub. L. 436–83, approved 10 June 1920, as amended (41 Stat. 1063; 16 U.S.C. 791(a))
2. Section 3 of the Flood Control Act approved 22 June 1936, as amended (49 Stat. 1571; 33 U.S.C. 701(c))
3. Section 9(b) of Reclamation Project Act of 1939, approved 4 August 1939 (53 Stat. 1187; 43 U.S.C. 485)
4. Section 7 of the Flood Control Act approved 22 December 1944 (58 Stat. 890; 33 U.S.C. 709)
5. Section 5 of Small Reclamation Projects Act of 6 August 1956, as amended (70 Stat. 1046; 43 U.S.C. 422(e))
6. Section 9 of Pub. L. 436–83d Congress (68 Stat. 303)
7. The Fish and Wildlife Coordination Act of 1958, Pub. L. 85–624
8. The Federal Water Project Recreation Act Uniform Policies, Pub. L. 89–72
9. The National Environmental Policy Act of 1969, Pub. L. 91–190
10. The Clean Water Act of 1977, Pub. L. 95–217
11. Executive Order 12088, Federal Compliance with Pollution Control Standards, 13 October 1978
12. 33 CFR 208.10, Local flood protection works; maintenance and operation of structures and facilities (9 FR 9999; 9 FR 10203)
13. 33 CFR 208.11, Regulations for use of Storage Allocated for Flood Control or Navigation and/or Project Operation at Reservoirs

subject to Prescription of Rules and Regulations by the Secretary of the Army in the Interest of Flood Control and Navigation (43 FR 47184)

- 14. AR 18-1
- 15. ER 11-2-101
- 16. ER 15-2-13
- 17. ER 500-1-1, 33 CFR part 203
- 18. ER 1110-2-241, 33 CFR part 208
- 19. ER 1110-2-1400
- 20. ER 1110-2-1402
- 21. ER 1110-2-1941
- 22. ER 1125-2-301
- 23. ER 1130-2-303
- 24. ER 1130-2-334
- 25. ER 1130-2-415
- 26. ER 1130-2-417
- 27. ER 1130-2-419
- 28. EM 1110-2-3600

APPENDIX B TO § 222.5—SUMMARY OF CORPS OF ENGINEERS RESPONSIBILITIES FOR PRESCRIBING REGULATIONS FOR NON-CORPS RESERVOIR PROJECTS

Summary

1. (a) "Regulations for Use of Storage Allocated for Flood Control or Navigation and/or Project Operation at Reservoirs subject to Prescription of Rules and Regulations by the Secretary of the Army in the Interest of Flood Control and Navigation" (33 CFR 208.11) prescribe the responsibilities and general procedures for regulating reservoir projects capable of regulation for flood control or navigation and the use of storage allocated for such purposes and provided on the basis of flood control and navigation, except projects owned and operated by the Corps of Engineers; the International Boundary and Water Commission, United States and Mexico; and those under the jurisdiction of the International Joint Commission, United States and Canada, and the Columbia River Treaty.

(b) Pertinent information on projects for which regulations are prescribed under Section 7 of the 1944 Flood Control Act, (Pub. L. 78-58 Stat. 890 (33 U.S.C. 709)) the Federal Power Act (41 Stat. 1063 (16 U.S.C. 791(A))) and Section 9 of Pub. L. 436-83d Congress (68 Stat. 303) is published in the FEDERAL REGISTER in accordance with 33 CFR 208.11.

Publication in the FEDERAL REGISTER establishes the fact and the date of a project's regulation plan promulgation.

2. Section 7 of Act of Congress approved 22 December 1944 (58 Stat. 890; 33 U.S.C. 709), reads as follows:

"Hereafter, it shall be the duty of the Secretary of War to prescribe regulations for the use of storage allocated for flood control or navigation at all reservoirs constructed wholly or in part with Federal funds provided on the basis of such purposes, and the

operation of any such project shall be in accordance with such regulations: *Provided*, That this section shall not apply to the Tennessee Valley Authority, except that in case of danger from floods on the Lower Ohio and Mississippi Rivers the Tennessee Valley Authority is directed to regulate the release of water from the Tennessee River into the Ohio River in accordance with such instructions as may be issued by the War Department."

3. Section 9(b) of the Reclamation Project Act of 1939, approved 4 August 1939 (53 Stat. 1189, 43 U.S.C. 485), provides that the Secretary of the Interior may allocate to flood control or navigation as part of the cost of new projects or supplemental works; and that in connection therewith he shall consult with the Chief of Engineers and may perform any necessary investigations under a cooperative agreement with the Secretary of the Army. These projects are subject to 33 CFR 208.11 regulations.

4. Several dams have been constructed by State agencies under provisions of legislative acts wherein the Secretary of the Army is directed to prescribe rules and regulations for project operation in the interest of flood control and navigation. These projects are subject to 33 CFR 208.11 regulations.

5. There are few dams constructed under Emergency Conservation work authority or similar programs, where the Corps of Engineers has performed major repairs or rehabilitation, that are operated and maintained by local agencies which are subject to 33 CFR 208.11 regulations.

6. The Federal Power Act, approved 10 June 1920, as amended (41 Stat. 1063, 16 U.S.C. 791 (A)), established the Federal Power Commission, now Federal Energy Regulatory Commission (FERC), with authority to issue licenses for constructing, operating, and maintaining dams or other project works for the development of navigation, for utilization of water power and for other beneficial public uses in any streams over which Congress has jurisdiction. The Chief of Engineers is called upon for advice and assistance as needed in formulating reservoir regulation requirements somewhat as follows:

a. In response to requests from the FERC, opinions and technical appraisals are furnished by the Corps of Engineers for consideration prior to issuance of licenses by the FERC. Such assistance may be limited to general presentations, or may include relatively detailed proposals for water control plans, depending upon the nature and scope of projects under consideration. The information furnished is subject to such consideration and use as the Chairman, FERC, deems appropriate. This may result in inclusion of simple provisions in licenses without elaboration, or relatively detailed requirements for reservoir regulation schedules and plans.

b. Some special acts of Congress provide for construction of dams and reservoirs by non-Federal agencies or private firms under licenses issued by the FERC, subject to stipulation that the operation and maintenance of the dams shall be subject to reasonable rules and regulations of the Secretary of the Army in the interest of flood control and navigation. Ordinarily no Federal funds are involved, thus Section 7 of the 1944 Flood Control Act does not apply. However, if issuance of regulations by the Secretary of the Army is required by the authority under which flood control or navigation provisions are included as functions of the specific project or otherwise specified in the FERC license, regulation plans will be prescribed in accordance with 33 CFR 208.11 regulations.

7. Projects constructed by the Corps of Engineers for local flood protection purposes are subject to conditions of local cooperation as provided in Section 3 of the Flood Control Act approved 22 June 1936, as amended. One of those conditions is that a responsible local agency will maintain and operate all works after completion in accordance with regulations prescribed by the Secretary of the Army. Most such projects consist mainly of levees and flood walls with appurtenant drainage structures. Regulations for operation and maintenance of these projects has been prescribed by the Secretary of the Army in 33 CFR 208.10. When a reservoir is included in such a project, it may be appropriate to apply 33 CFR 208.10 in establishing regulations for operation, without requiring their publication in the FEDERAL REGISTER. For example, if the reservoir controls a small drainage area, has an uncontrolled flood control outlet with automatic operation or contains less than 12,500 acre-feet of flood control or navigation storage, 33 CFR 208.10 may be suitable. However, 33 CFR 208.11 regulations normally would be applicable in prescribing flood control regulations for the individual reservoir, if the project has a gated flood control outlet by which the local agency can regulate floods.

8. Regulation plans for projects owned by the Corps of Engineers are not prescribed in accordance with 33 CFR 208.11. However, regulation plans for projects constructed by the Corps of Engineers and turned over to other agencies or local interests for operation may be prescribed in accordance with 33 CFR 208.11.

9. The Small Reclamation Projects Act of 6 August 1956 provides that the Secretary of the Interior may make loans or grants to local agencies for the construction of reclamation projects. Section 5 of the Act provides in part that the contract covering any such grant shall set forth that operation be in accordance with regulations prescribed by the head of the Federal department or agency primarily concerned. Normally, 33 CFR 208.11 is not applicable to these projects.

APPENDIX C TO § 222.5—PROCEDURES FOR DEVELOPING AND PROCESSING REGULATIONS FOR NON-CORPS PROJECTS IN CONFORMANCE WITH 33 CFR 208.11

1. *Sequence of actions.* a. Discussions leading to a clarification of conditions governing allocations of storage capacity to flood control or navigation purposes and project regulation are initiated by District/Division Engineers through contacts with owners and/or operating agencies concerned at regional level.

b. Background information on the project and conditions requiring flood control or navigation services, and other relevant factors, are assembled by the District Engineer and incorporated in a "Preliminary Information Report". The Preliminary Information Report will be submitted to the Division Engineer for review and approval. Normally, the agency having jurisdiction over the particular project is expected to furnish information on project features, the basis for storage allocations and any other available data pertinent to the studies. The Corps of Engineers supplements this information as required.

c. Studies required to develop reservoir regulation schedules and plans usually will be conducted by Corps of Engineers personnel at District level, except where the project regulation affects flows in more than one district, in which case the studies will be conducted by or under supervision of Division personnel. Assistance as may be available from the project operating agency or others concerned will be solicited.

d. When necessary agreements are reached at district level, and regulations developed in accordance with 33 CFR 208.11 and EM 1110-2-3600, they will be submitted to the Division Commander for review and approval, with information copies for DAEN-CWE-HW. Usually the regulations include diagrams of operating parameters.

e. For projects owned by the Bureau of Reclamation, the respective Regional Directors are designated as duly authorized representatives of the Commissioner of Reclamation. By letter of 20 October 1976, the Commissioner delegated responsibilities to the Regional Directors as follows: "Regarding the designated authorization of representatives of the Commissioner of Reclamation in matters relating to the development and processing of Section 7 flood control regulations, we are designating each Regional Director as our duly authorized representative to sign all letters of understanding, water control agreements, water control diagrams, water control release schedules and other documents which may become part of the prescribed regulations.

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The Regional Director also will be responsible for obtaining the signature of the designated operating agency on these documents where such is required. Regarding internal coordination within the Bureau of Reclamation, the Regional Directors will obtain the review and approval of this office and at appropriate offices with our Engineering and Research Center, Denver, Colorado, prior to signing water control documents."

f. In accordance with the delegation cited in paragraph e, 33 CFR 208.11 regulations pertaining to Bureau of Reclamation projects will be processed as follows:

(1) After regulation documents submitted by District Commanders are reviewed and approved by the Division Commander they are transmitted to the respective Regional Director of the Bureau of Reclamation for concurrence of comment, with a request that tracings of regulation diagrams be signed and returned to the Division Commander.

(2) If any questions arise at this stage appropriate actions are taken to resolve differences. Otherwise, the duplicate tracings of the regulation diagram are signed by the Division Commander and transmitted to the office of the project owner for filing.

(3) After full agreement has been reached in steps (1) and (2), the text of proposed regulations is prepared in final form. Copies of any diagrams involved are included for information only.

(4) A letter announcing completion of action on processing the regulations, with pertinent project data as specified in paragraph 208.11(d)(11) of 33 CFR 208.11, and one copy of the signed tracings of diagrams are forwarded to HQDA (DAEN-CWE-HW) WASH DC 20314 for promulgation and filing. The office of the Chief of Engineers will forward the pertinent project data to the Liaison Officer with the Federal Register, requesting publication in the FEDERAL REGISTER.

g. Regulations developed in accordance with 33 CFR 208.11 and applicable to projects that are not under supervision of the Bureau of Reclamation are processed in substantially the manner described above. All coordination required between the Corps of Engineers and the operating agency will be accomplished at field level.

h. Upon completion of actions listed above, Division Commanders are responsible for informing the operating agencies at field level that regulations have been promulgated.

2. *Signature blocks:* Some 33 CFR 208.11 regulations contain diagrams of parameter curves that cannot be published in the FEDERAL REGISTER, but are made a part thereof by appropriate reference. Each diagram bears a title block with spaces for the signature of authenticating officials of the Corps of Engineers and the owner/operating agency of the project involved.

3. *Designation of Corps of Engineers Representatives.* Division Commanders are designated representatives of the Chief of Engineers in matters relating to development and processing of 33 CFR 208.11 regulations for eventual promulgation through publication of selected data specified in paragraph (d)(11) §208.11. Division Commanders are designated as the Corps of Engineers signee on all letters of understanding, water control agreements and other documents which may become part of prescribed regulations for projects located in their respective geographic areas, and which are subject to the provisions of 33 CFR 208.11.

APPENDIX D TO §222.5—SAMPLE TABULATION

BARDWELL LAKE, MONTHLY LAKE REPORT, MAY 1975

Day	Elevations 0800: 2,400 feet-MSL	Storage 2400 A-F	Evap DSF	Pump DSF	Release DSF	Inflow adj. DSF	Rain, inch
1	421.30 421.31	55979	28	2.0	0	84	0.00
2	421.32 421.37	56196	5	2.0	0	117	.00
3	421.43 421.44	56449	23	1.9	0	152	.14
4	421.45 421.47	56558	1	1.8	0	58	.00
5	421.49 421.34	56088	1	2.0	324	50	.00
6	421.20 421.01	54902	14	1.9	632	50	.00
7	420.88 420.89	54473	4	2.0	269	59	.09
8	420.89 420.91	54544	5	2.3	0	44	.00
9	420.90 420.89	54473	11	1.5	0	38	.00
10	420.90 420.90	54509	28	3.0	0	27	.00
11	420.91 421.35	56124	26	1.8	0	824	.00
12	421.54 421.65	57213	31	2.1	0	582	1.61
13	421.70 421.75	57578	29	2.2	0	216	.00
14	421.78 421.76	57614	34	1.9	249	303	.03
15	421.69 421.52	56739	22	1.9	643	225	.57
16	421.39 421.28	55871	39	2.1	535	138	.00
17	421.19 421.09	55188	10	2.2	393	119	.00
18	421.03 421.05	55045	46	2.0	143	60	.00
19	421.04 421.07	55116	17	2.3	0	55	.00

BARDWELL LAKE, MONTHLY LAKE REPORT, MAY 1975—Continued

Day	Elevations 0800: 2,400 feet-MSL	Storage 2400 A-F	Evap DSF	Pump DSF	Release DSF	Inflow adj. DSF	Rain, inch
20	421.06 421.30	55943	21	2.1	0	440	.21
21	421.39 421.47	56558	20	2.1	0	332	.97
22	421.50 421.39	56268	42	2.1	247	145	.00
23	421.37 424.91	69726	31	2.0	328	7146	.22
24	425.61 426.15	74825	22	2.0	0	2595	2.38
25	426.15 426.55	76523	18	2.3	0	876	.11
26	426.72 426.80	77598	42	2.1	0	586	.00
27	426.95 427.00	78465	23	2.0	0	462	.00
28	427.14 427.15	79116	31	2.1	0	361	.19
29	427.31 427.70	81528	61	1.9	0	1279	.20
30	427.94 428.05	83082	11	2.0	0	796	1.02
31	428.20 428.22	83837	7	2.1	0	389	.00
Monthly total:							
(DSF)			700	64	3763	18626	7.74
(A-F)		27966	1389	126	7464	36945	.....

APPENDIX E TO § 222.5—LIST OF PROJECTS

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.				Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower			
Lower Mississippi Valley Division											
Alligator—Catfish FG Arkabutla Lk MS Tallahatchie Ascalmore—Tippo FG & CS Bienvenue FG Big Lk Ditch #81 CS Big Lk Div CS Big Lk North End CS Big Lk South end CS Birds Point—New Madrid Div Floodway. Bodcau Lk Bonnet Carre Div Spillway Bowman Lock Caddo Lk Cairo 10th & 20th St PS Calcasieu SW Barrier & Lock Calton L&D Calumet FG East & West Cannon Re-reg Carlyle Lk Catahoula Lk CS Catfish Point CS Charenton FG Cocodrie FG FG Collins Cr Columbia L&D Connelly CS Courtableau Drainage CS Darbonne CS DeGray Lk DeGray Rereg. St Ditch Bayou Dam Drainage Dist #17 PS Drinkwater PS Dupre FG East St Louis PS Empire FG Hurr Prot & Lock End Lk	MS Issaquena	Little Sunflower	F	0.0	0.0	0.0	0	0	0	FCA Jun 36.	
	MS Desoto	Coldwater	F	525.0	238.3	209.3	33,400	5,100	0	FCA Jun 36.	
	MS Tallahatchie	Ascalmore	F	0.0	136.0	118.0	0	0	0	FCA Jun 36.	
	LA St Bernard	Bayou Bienvenue	F	0.0	2.0	2.0	0	0	0	PL 298–89	
	AR Mississippi	Ditch 81 Extension.	C	0.0	0.0	230.0	0	0	0	FCA Oct 65.	
	AR Mississippi	Little R	C	0.0	0.0	230.0	0	0	0	FCA Oct 65.	
	AR Mississippi	Little R	C	0.0	0.0	230.0	0	0	0	FCA Oct 65.	
	AR Mississippi	Ditch 28	C	0.0	0.0	230.0	0	0	0	FCA Oct 65.	
	MO New Madrid	Mississippi	F	0.0	330.5	328.5	131,000	71,000	0	FCA May 28.	
	LA Bossier	Bayou Bodcau	F	35.3	199.5	157.0	21,000	110	0	PL 74–839.	
	LA St Charles	Mississippi R	F	0.0	24.0	20.0	0	0	0	FCA May 28.	
	LA Vermilion	GIWW	I	0.0	1.2	1.2	0	0	0	PL 79–14.	
	LA Caddo	Cypress Bayou	N	128.6	182.7	168.5	59,000	26,800	0	FCA Oct 65.	
	IL Pulaski	Ohio	F	0.0	310.5	299.0	0	0	0	PL 90–483.	
	LA Calcasieu	Calcasieu R	I	0.0	1.2	1.2	0	0	0	RHA Oct 62.	
	AR Union	Ouachita	N	0.0	77.0	77.0	12,200	12,200	0	PL 79–525.	
	LA St Mary	Wax Lake Outlet Bayou Teche.	FN	0.0	3.0	3.0	0	0	0	RHA 1950.	
	MO Ralls	Salt R	PCA	5.8	528.0	521.0	1,020	460	0	FCA Jun 36.	
	IL Clinton	Kaskaskia R	F	699.0	462.5	445.0	50,440	24,580	SD 44.	HD 507.	
	LA LaSalle	Catahoula Div	CR	233.0	445.0	429.5	0	7,100	0	SD 44.	
	LA Cameron	Mentemau R	FN	118.0	34.0	27.0	25,000	94	0	RHA 1960	
	LA St Mary	Grand Lk	FN	0.0	1.2	1.2	0	0	0	FCA Aug 41, RHA Jul 64.	
	LA Concordia	Bayou Cocodrie	F	0.0	0.0	0.0	0	0	0	RHA Jul 46, FCA May 28.	
	MS Warren	Collins Cr	F	0.0	46.0	13.0	0	0	0	RHA Jul 46, FCA May 28.	
	LA Caldwell	Ouachita	N	0.0	84.0	67.0	0	0	0	FCA Aug 41.	
	AR Chicot	Connelly Bayou	FCR	0.0	52.0	52.0	7,070	7,070	0	FCA 1941.	
	LA St Landry	Bayou Courtableau	F	0.0	116.0	106.0	0	0	0	RHA 1950.	
	LA St Landry	Bayou Darbonne	FI	0.0	18.0	16.0	0	0	0	FCA Aug 68.	
AR Desoto	Caddo	FNPMRA	881.9	423.0	345.0	23,800	6,400	0	FCA May 28, PL 391–70.		
AR Clark	Caddo	NMRA	3.6	221.0	209.0	430	90	0	FCA May 28, PL 391–70.		
AR Chicot	Ditch Bayou	FCR	0.0	106.0	93.0	0	0	0	RHA 1950, WSA 1958.		
AR Mississippi	Ditch 71	F	3.0	236.0	228.0	4,100	0	0	FCA Aug 68.		
MO Mississippi	Drinkwater Sewer	F	20.6	315.0	307.0	4,000	700	0	FCA Aug 68, PL 90–483.		
LA St Bernard	Bayou Dupre	F	0.0	2.0	2.0	0	0	0	FCA May 50, PL 516.		
IL St. Clair	IDD	F	0.0	0.0	0.0	0	0	0	PL 298–89.		
LA Plaquemine	Mississippi R	F	0.0	5.0	5.0	0	0	0	FC Act 36.		
MS Yalobusha	Yacona	F	660.0	268.0	230.0	28,000	6,100	0	PL 874–87.		
									FCA Jun 36.		

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Felsenthal L&D	AR Union	Ouachita	N	32.5	70.0	65.0	46,500	17,500	RHA 1950.
Finley Street PS	TN Dyer	Forked Deer	F	0.5	269.0	257.0	94	22	FCA 1948, PL 85–500.
Freshwater Lock	LA Vermilion	Freshwater Bayou	I	0.0	0.0	0.0	0	0	PL 86–645.
Graham Burke PS	AR Phillips	White	NI	2,805.0	174.8	140.0	149,000	2,500	FCA May 28, PL 85–500.
Grenada Lk	MS Grenada	Yalobusha Skuna	F	1,357.4	231.0	193.0	64,600	9,800	FCA Jun 56.
Huxtable PS	AR Lee	St Francis	F	2,863.0	207.2	165.0	18,500	1,400	FCA May 50.
Jonesville L&D	LA Catahoula	Black	N	34.0	34.0	34.0	7,120	7,120	RHA 1950.
Kaskaskia L&D	IL Randolph	Kaskaskia R	N	1.1	368.0	363.0	1,300	1,200	SD 44.
L&D 1	LA Catahoula	Red R	N	0.0	40.0	40.0	0	0	PL 90–483.
L&D 2	LA Rapides	Red R	N	0.0	71.2	64.0	0	0	PL 90–483.
L&D 3	LA Rapides	Red R	N	0.0	95.0	91.5	0	0	PL 90–483.
L&D 4	LA Natchitoches	Red R	N	0.0	120.0	119.6	0	0	PL 90–483.
L&D 5	LA Red R	Red R	N	0.0	145.0	140.2	0	0	PL 90–483.
L&D 24	MO Pike	Mississippi R	N	29.7	449.0	445.0	13,000	12,000	R&H Act, Jul 3/30.
L&D 25	MO Lincoln	Mississippi R	N	49.7	434.0	429.7	18,000	16,600	R&H Act, Aug 30/35.
L&D 26	IL Madison	Mississippi R	N	107.1	419.0	414.0	30,000	27,700	R&H Act, Jul 3/30.
Larose to Golden Meadow Hurr Prot FG.	LA LaFourche	Bayou LaFourche	F	0.0	3.0	3.0	0	0	R&H Act, 8/30/1935.
Little Sun flower CS	MS Issaquena	Lt. Sunflower	F	0.0	85.0	60.0	0	0	FCA 1941.
Lk #9 Culvert & PS	KY Fulton	Mississippi	F	6.5	286.0	282.0	0	0	FCA Oct 65.
Lk Chicot PS	AR Chicot	Macon Lk	FCR	0.0	118.2	90.0	0	0	FCA Aug 68.
Lk Greeson	AR Pike	Little Missouri	P	0.0	563.0	436.9	0	0	FCA 1941.
Lk Ouachita	AR Garland	Ouachita	FP	407.9	563.0	504.0	9,800	2,500	0
Long Branch DS	LA Catahoula	Catahoula Div	P	0.0	592.0	480.0	0	0	FCA Dec 44.
Mark Twain Lk	MO Ralls	Salt R	F	894.0	32.5	32.5	38,400	18,600	FCA May 50.
Marked Tree Siphon	AR Poinsett	St. Francis	PMCAR	457.0	606.0	567.2	18,600	5,900	HD 507.
Morganza Div CS	LA Point Coupee	Morganza Floodway	F	0.0	229.0	198.3	0	0	FCA Jun 30.
Muddy Bayou CS	MS Warren	Muddy Bayou	F	0.0	59.5	49.0	0	0	FCA May 28.
Old River Div CS Low Sill Overbank & Aux.	LA W. Feliciana	Old R	FC	30.0	76.9	70.0	4,350	2,860	FCA Oct 65.
Old River Lock	LA W Feliciana	Old R	N	0.0	65.4	10.0	0	0	PL 83–780.
Port Allen Lock	LA Port Allen	GIWW	N	0.0	46.1	2.6	0	0	FCA Sep 54, PL 780–83.
Prairie Dupont East & West PS	IL St. Clair	IDD	N	0.0	0.0	0.0	0	0	RHA Jul 46.
Rapides-Boeuf Div Canal CS	LA Rapides	Bayou Rapides	F	0.0	66.0	62.2	0	0	FC Act 62.
Rend Lk	IL Franklin	Big Muddy R	F	109.0	405.0	410.0	24,800	18,900	FCA Aug 41, GD 359–77.
Sardis Lk	MS Panola	Little Sunflower	MA	160.0	405.0	391.3	18,900	5,400	HD 541.
Schooner Bayou CS & Lock	LA Vermilion	Schooner Bayou	F	1,569.9	281.4	236.0	58,500	10,700	FCA Jun 36.
			I	0.0	1.2	1.2	0	0	FCA Aug 41.

Shelbyville Lk	IL Shelby	Kaskaskia R	F	474.0	626.5	599.7	25,300	11,100	HD 232.
Sorell Lock	LA Iberville	GWV	NMCR	180.0	599.7	573.0	11,100	3,000	
St Francis Lk CS	AR Poinsett	Oak Donnick Floodway	N	0.0	29.7	3.5	0	0	FCA May 28.
Steele Bayou CS	MS Issaquena	Steele Bayou	C	0.0	0.0	210.0	0	2,240	FCA Oct 65.
Tchula Lk Lower FG	MS Humphreys	Tchula Lk	F	0.0	68.5	60.0	0	0	FCA 1941.
Tchula Lk Upper FG	MS Humphreys	Tchula Lk	F	0.0	110.0	84.0	0	0	FCA Jun 36.
Teche-Vermilion PS & CS	MS Humphreys	Tchula Lk	F	0.0	108.0	92.0	0	0	FCA Jun 36.
Texas-Cocodrie PS	LA St Mary	Achafalaya R	MI	0.1	18.0	16.0	0	0	PL 89-789, FCA May 28.
Treasure Island PS	LA Cocodrie	Bayou Corcorde	F	0.0	37.0	23.0	0	0	FCA Oct 65.
Wallace Lk	MO Dunklin	Little R	F	23.4	252.0	235.0	7,800	180	FCA Jul 46.
Wappapello Lk	LA Caddo	Cypress Bayou	F	96.1	158.0	142.0	9,300	2,300	RHA Mar 45, PL 75-761.
Wasp Lk	MO Wayne	St Francis R	F	613.2	394.7	354.7	23,200	5,200	HD 159.
West Hickman PS	MS Humphreys	Wasp Lk-Bear Cr	F	0.0	111.6	88.5	9	0	FCA Jun 36.
Wood R PS	KY Fulton	Mississippi	F	0.0	302.0	296.0	0	4	FCA 1948.
Yazoo City PS	IL Madison	IDD	F	0.0	0.0	0.0	0	0	FC Act 38.
	MS Yazoo	Yazoo	F	0.0	96.0	69.0	0	0	FCA Jun 36.

Missouri River Division									
Bear Creek Dam & Res	CO Jefferson	Bear Cr	F	28.8	5,635.5	5,558.0	718	109	PL 90-483.
Big Bend Dam & Lk Sharpe	SD Lyman Buffalo Hughes.	Missouri R	FCR	1.9	5,558.0	5,528.0	109	17	SD 87-90.
			F	61.0	1,423.0	1,422.0	61,000	60,000	PL 78-534.
Blue Springs Dam & Lk	MO Jackson	Little Blue R	FNPMCR	117.0	1,422.0	1,420.0	60,000	57,000	SD 247-78.
Blue Stem Lake & Dam 4	NE Lancaster	Olive Br. Salt Creek	FRC	15.8	820.0	802.0	982	722	PL 90-483.
Bowman-Haley Dam & Res	ND Bowman	No Fk Grand River	F	10.8	802.0	760.0	722	0	HD 169-90.
			F	7.2	1,322.5	1,307.4	660	315	PL 85-500.
Branched Oak Lk & Dam 18	NE Lancaster	Oak Creek trib. Salt Creek.	FCR	3.0	1,307.4	1,277.0	315	1	HD 396-84.
			F	72.7	2,777.0	2,754.8	5,131	1,732	PL 87-874.
			FMCR	15.5	2,754.8	2,740.0	1,732	565	HD 574-87.
			F	71.6	1,311.0	1,284.0	3,640	1,780	PL 85-500.
Bull Hook Dam	MT Hill	Bull Hook Cr Scott Coulee.	FCR	26.0	1,284.0	1,250.0	1,780	0	HD 396-84.
			F	6.5	2,593.0	2,540.0	283	0	PL 78-534.
Cedar Canyon Dam	SD Pennington	Deadman's Gulch	F	0.1	3,545.0	3,526.0	11	2	PL 80-858.
Chatfield Dam & Res	CO Douglas	S Platte	F	204.7	5,500.0	5,432.0	4,742	1,412	PL 81-516.
Cherry Cr Dam & Res	CO Arapahoe	Cherry Cr	FQ	26.7	5,432.0	5,385.0	1,412	12	HD 669-80.
			F	80.0	5,598.0	5,550.0	2,637	852	PL 77-228.
Clinton Dam & Lk	KS Douglas	Wakarusa R	FR	14.0	5,550.0	5,504.0	852	0	HD 426-76, PL 78-534.
Cold Brook Dam & Res	SD Fall River	Cold Brook	F	267.8	903.4	875.5	12,891	7,006	PL 87-874.
			FMCR	129.2	875.5	820.0	7,006	0	SD 122-87.
Conestoga Lake & Dam 12	NE Lancaster	Holmes Cr Trib to Salt Cr.	F	6.7	3,651.4	3,585.0	198	36	PL 77-228.
			FR	0.5	3,585.0	3,548.0	36	0	HD 655-76.
			F	8.0	1,252.0	1,232.9	620	230	PL 85-500.
Cottonwood Springs Dam & Res	SD Fall River	Cottonwood Springs Cr	FCR	2.6	1,232.9	1,197.0	230	1	HD 396-84.
			F	7.7	3,936.0	3,875.0	214	44	PL 77-228.
			FR	0.2	3,875.0	3,868.0	44	30	HD 655-76.

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Pipestem Dam & Res	ND Stutsman	Pipestem Cr	FN	243.2	891.5	825.0	122	0	HD 642-81.
Pomme De Terre Lk	MO Polk	Pomme De Terre R	FRC	137.0	1,496.3	1,442.4	4,754	885	PL 89-298.
Pomona Lk	KS Osage	110 Mile Cr	FNPCAR	9.6	1,442.4	1,415.0	885	62	HD 266-89.
Rathbun Lk	IA Appanoose	Chariton R	F	407.2	874.0	839.0	15,980	7,890	PL 75-761.
Smithville Lk	MO Clay	Little Platte R	F	241.6	839.0	750.0	7,890	0	HD 549-81, PL 83-780.
Spring Gulch Imbankment	CO Douglas	Spring Gulch	F	176.8	1,003.0	974.0	8,520	400	PL 83-780.
Stagecoach Lk & Dam 9	NE Lancaster	Hickman Br of Salt Cr	F	70.6	974.0	912.0	4,000	0	HD 549-81.
Standing Bear Lk & Dam 16	NE Douglas	Trib Big Papillion Cr	F	346.3	926.0	904.0	20,948	11,013	PL 83-780.
Stockton Lk	MO Cedar	Sac R	F	205.4	904.0	844.0	11,013	0	HD 561-81.
Tuttle Creek Lk	KS Riley	Big Blue R	F	101.8	876.2	864.2	9,985	7,192	PL 89-298.
Twin Lakes & Dam 13	NE Seward	Middle Cr Salt Cr	F	144.6	864.2	799.0	7,192	0	HD 262-89.
Wagon Train Lk & Dam 8	NE Lancaster	Hickman Br of Salt Cr	F	1.8	5,600.00	5,535.0	88	0	PL 81-516, HD 669-80.
Wehrspann Lk & Dam 20	NE Sarpy	Trib South Branch Papio	F	4.7	1,285.0	1,271.1	490	196	PL 85-500.
Wilson Lk	KS Russell	Saline R	F	1.9	1,271.1	1,246.0	196	0	HD 396-84.
Yankee Hill Lk & Dam 10	NE Lancaster	Cardwell Br of Salt Cr	F	3.7	1,121.0	1,104.0	302	137	PL 90-483.
			FRC	1.5	1,104.0	1,060.0	137	0	HD 349-90.
			F	779.6	892.0	867.0	38,288	24,777	PL 83-780.
			FARPN	887.1	867.0	760.0	24,777	0	HD 549-89.
			FN	1,937.4	1,136.0	1,075.0	54,179	14,875	PL 75-761.
			F	177.1	1,075.0	1,061.0	14,875	0	HD 842-76.
			CFR	5.3	1,355.0	1,341.0	505	255	PL 85-500.
			F	2.8	1,341.0	1,306.0	255	1	HD 396-84.
			F	6.8	1,302.0	1,287.8	660	303	PL 85-500.
			FCR	2.5	1,287.8	1,260.0	303	4	HD 396-84.
			F	6.1	1,113.1	1,096.0	493	246	PL 90-483.
			FCAR	2.7	1,096.0	1,069.0	493	10	HD 349-90.
			F	530.7	1,554.0	1,516.0	19,980	9,040	PL 78-534.
			FRC	247.8	1,516.0	1,440.0	9,040	0	SD 191-78, SD 247-78.
			F	5.6	1,262.0	1,244.9	475	208	PL 85-500.
			FCR	2.0	1,244.9	1,218.0	208	0	HD 396-84.

North Atlantic Division									
Almond Lake	NY Steuben	Canacadea Cr	F	14.6	1,300.0	1,255.0	489	124	PL 74-738.
Alvin R. Bush Dam	PA Clinton	Kettle Cr	F	73.4	937.0	840.0	1,430	160	FCA Sep 54.
Arkport Dam	NY Steuben	Canisteo R	F	8.0	1,304.0	1,218.0	192	0	PL 74-738.
Aylesworth Cr Lk	PA Lackawanna	Aylesworth Cr	F	1.7	1,150.0	1,108.0	87	7	PL 87-874.
Beltzville Dam & Lk	PA Carbon, Monroe	Pohopoco Cr	F	27.0	651.0	628.0	1,411	947	PL 87-874.
Bloomington Lk	MD Garret	North Branch Potomac R	FMA	39.8	628.0	537.0	947	113	PL 87-874.
Blue Marsh Dam & Lk	PA Lebanon Berks	Tulpehocken CR	FMA	36.2	1,500.0	1,466.0	1,164	952	PL 87-874.
Cowanessque Lk	PA Tioga	Cowanessque R	F	92.0	1,466.0	1,255.0	952	42	PL 87-874.
Curwensville Lk	PA Clearfield	West Branch Susquehanna R	FMA	27.1	307.0	290.0	2,159	1,147	PL 85-500.
East Sidney Lk	NY Delaware	Ouleout Cr	F	19.9	290.0	261.0	1,147	323	FCA Sep 54.
Foster Joseph Sayers Dam	PA Centre	Bald Eagle Cr	F	82.0	1,117.0	1,045.0	2,060	410	PL 74-738.
Francis E. Walter Dam & Res	PA Carbon, Luzerne, Monroe.	Lehigh R	F	114.7	1,228.0	1,162.0	3,020	790	FCA Sep 54.
			F	30.2	1,203.0	1,150.0	1,100	210	PL 74-738.
			F	70.2	657.0	630.0	3,450	1,730	FCA Sep 54.
			F	107.8	1,450.0	1,300.0	1,830	80	PL 79-526.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Gathright Dam & Lk Moonnaw	VA Alleghany, Bath	Jackson R	F	79.9	1,610.0	1,582.0	3,160	2,530	PL 79–526.
General Edgar Jadwin Dam	PA Wayne	Dyberry Cr	AR	60.7	1,582.0	1,554.0	2,530	1,780	
Prompton Dam & Res	PA Wayne	W Br Lackawaxen R	F	24.5	1,053.0	973.0	659	0	PL 80–858.
Raystown Lk	PA Huntingdon	Raystown Br	F	48.5	1,205.0	1,125.0	910	290	PL 80–858.
			F	248.0	812.0	786.0	10,800	8,300	PL 87–874.
			FR	514.0	786.0	622.8	8,300	150	
Stillwater Lk	PA Susquehanna	Lackawanna R	F	11.6	1,621.0	1,572.0	422	83	PL 77–228.
Tioga-Hammond Lakes Hammond	PA Tioga	Crooked Cr	F	54.2	1,131.0	1,086.0	1,770	680	PL 85–500.
Tioga-Hammond Lakes Tioga	PA Tioga	Tioga R	F	52.5	1,131.0	1,081.0	1,630	470	PL 85–500.
Whitney Plant Lk	NY Broome	Osatic R	F	66.5	1,010.0	973.0	3,340	1,200	PL 74–738.
York Indian Rock Dam	PA York	Codorus Cr	F	28.0	435.0	370.0	1,430	0	PL 74–738.
North Central Division									
Badhill Dam & Res	ND Barnes	Shenoyenne R	FM	68.6	1,286.0	1,257.2	5,430	4,430	FCA Dec 44.
Brandon Road L&D	IL Will	Illinois R	N	8.0	539.0	538.0	300	250	PL 71–126.
Cedars L&D	WI Outagamie	Fox R	N	1.8	703.6	698.7	255	140	RHA of 1882, 1885.
Coralville Dam & Res	IA Johnson	Iowa R	F	439.0	712.0	680.0	24,800	3,580	PL 75–761.
			C	40.3	680.0	652.0	3,580	0	PL 75–761.
Depree L&D	WI Brown	Fox R	N	9.4	591.0	586.7	926	0	PL 71–126.
Dresden Island L&D	IL Grundy	Illinois R	N	1.0	505.0	504.0	1,690	1,550	FCA 1966.
Eau Galle Dam & Res	WI Pierce	Eau Galle R	FCR	1.6	940.0	938.5	1,500	1,350	PL 78–534.
Farmdale Dam	IL Tazewell	Farm Cr	F	11.3	616.0	551.0	385	0	PL 78–534.
Fondulac Dam	IL Tazewell	Fondulac Cr	F	2.3	579.0	530.0	97	0	PL 78–534.
Gull Lk Dam & Res	NY Cass	Gull R	N	70.4	1,194.0	1,192.7	13,100	12,700	RHA 1899.
Highway 75 Dam & Res	MN Bigstone, Lacqui, Parie	Minnesota R	FC	11.1	952.3	947.3	2,790	910	FCA Oct 65.
Homme Dam & Res	ND Walsh	Park R	FM	3.7	1,080.0	1,074.0	190	176	FCA of 22 Dec 44.
L&D 1	MN Hennepin, Ramsey	Mississippi R	N	13.0	725.1	722.8	5,800	5,500	RHA 1910.
L&D 2	MN Dakota, Wash	Mississippi R	N	8.0	687.2	686.5	11,810	11,000	RHA 1927.
L&D 3	MN Goodhue, Pierce	Mississippi R	N	17.8	675.0	674.0	17,950	17,650	RHA 1930.
L&D 4	WI Wabasha, Buffalo	Mississippi R	N	18.0	667.0	666.5	38,820	36,600	RHA 1930.
L&D 5	MN Winona, Buffalo	Mississippi R	N	6.2	660.0	659.5	12,680	12,000	RHA 1930.
L&D 5A	MN Winona, Buffalo	Mississippi R	N	7.2	651.0	650.0	7,500	7,000	RHA 1930.
L&D 6	MN Winona	Mississippi R	N	8.4	645.5	644.5	8,870	8,000	RHA 1930.
L&D 7	MN Winona	Mississippi R	N	2.6	639.0	639.0	13,440	13,400	RHA 1930.
	WI LaCrosse	Mississippi R	N						
L&D 8	MN Houston	Mississippi R	N	20.4	631.0	630.0	20,800	20,000	RHA 1930.
	WI Vernon								
L&D 9	WI Crawford	Mississippi R	N	28.7	620.0	619.0	29,125	28,300	RHA 1930.
L&D 10	IA Allamakee								
	IA Clayton	Mississippi R	N	16.8	611.0	610.0	17,070	16,500	RHA 1930.
	WI Grant								

L&D 11	IA Dubuque	Mississippi R	N	19.1	603.1	602.0	21,100	20,000	PL 71-520.
L&D 12	IA Jackson	Mississippi R	N	12.2	592.1	591.0	13,000	12,400	PL 71-520.
L&D 13	IL Whiteside	Mississippi R	N	24.2	583.1	582.0	30,000	28,500	PL 71-520.
L&D 14	IA Scott	Mississippi R	N	9.0	572.1	571.0	10,500	9,980	PL 71-520.
L&D 15	IL Rock Island	Mississippi R	N	5.5	561.1	559.0	3,725	3,540	PL 71-520.
L&D 16	IL Rock Island	Mississippi R	N	12.1	545.1	544.0	13,000	12,400	PL 71-520.
L&D 17	IL Mercer	Mississippi R	N	7.5	537.1	536.0	7,580	7,200	PL 71-520.
L&D 18	IL Henderson	Mississippi R	N	11.0	529.1	528.0	13,300	12,600	PL 71-520.
L&D 19	IA Lake	Mississippi R	N	55.0	518.2	517.2	33,500	31,800	PL 71-520.
L&D 20	MO Lewis	Mississippi R	N	5.8	481.5	476.5	7,960	7,550	PL 71-520.
L&D 21	IL Adams	Mississippi R	N	8.6	470.1	469.6	9,390	8,910	PL 71-520.
L&D 22	MO Polke	Mississippi R	N	8.4	459.6	459.1	8,660	8,230	PL 71-520.
Lac qui Parle Dam & Res	IL Chippewa Swift	Minnesota R	FC	119.3	941.1	931.2	13,500	6,400	FCA of 22 Jun 36.
Lacrange L&D	IL Brown	Illinois R	N	0.0	429.0	429.0	10,500	10,500	PL 73-184.
Leech Lake Dam & Res	IL Brown	Illinois R	N	300.2	1,295.7	1,293.2	139,000	107,200	RHA of 1882 1885.
Little Kaukauna L&D	WI Brown	Fox R	N	3.6	601.0	592.8	447	420	RHA of 1882 1885.
Little Chute L&D	WI Outagamie	Fox R	N	0.4	694.2	688.9	74	67	RHA of 1882 1885.
Lockport Lock	IL Will	Chicago San Ship Canal	FNP	2.7	579.0	577.5	1,850	1,800	RHA 1930.
Lower Appleton L&D	WI Outagamie	Fox R	N	0.2	710.9	706.3	43	40	RHA of 1882 1895.
Marselles Lk & Dam	IL LaSalle	Illinois R	N	0.7	483.0	482.8	1,400	1,320	PL 71-126.
Marsh Lake Dam & Res	IL LaSalle	Illinois R	N	23.9	941.1	937.6	8,650	5,150	FCA Jun 36.
Menasha Dam Lk Winnebago	WI Winnebago	Minnesota R	FC	452.0	746.8	743.5	181,120	168,500	
Mount Morris Dam	NY Livingston	Genesee R	F	337.4	760.0	585.0	3,300	0	PL 74-738.
O'Brien L&D	IL Cook	Calumet	N	0.3	581.9	578.2	50	50	RHA of 1946.
Peoria L&D	IL Peoria	Illinois R	N	0.0	440.0	440.0	27,800	27,800	PL 73-184.
Pine Dam & Res	IL Peoria	Illinois R	N	40.4	1,230.3	1,227.3	13,900	13,000	RHA of 1899.
Pokegama Dam & Res	IL Peoria	Illinois R	N	52.4	1,274.4	1,270.3	13,700	12,000	RHA of 1899.
Rapid Croche L&D	IL Peoria	Illinois R	N	3.4	608.5	602.1	568	0	RHA 1885.
Red Lake Dam & Res	IL Peoria	Illinois R	FA	1,810.0	1,174.0	1,173.5	288,800	287,300	FCA Dec 44.
Red Rock Dam & Res	IL Peoria	Illinois R	F	1,670.0	780.0	728.0	85,400	8,000	PL 75-761.
Reservation Control Res	IL Peoria	Illinois R	R	72.0	728.0	690.0	8,000	0	PL 75-761.
Sandy Lake Dam & Res	IL Peoria	Illinois R	FC	56.8	981.0	976.0	12,400	10,950	FCA 1936.
Saylorville Dam & Res	IL Peoria	Illinois R	N	37.5	1,218.3	1,214.3	10,600	8,200	RHA of 1899.
St Anthony Falls Lwr L&D	IL Peoria	Illinois R	F	586.0	890.0	836.0	16,700	5,950	FCA 1936.
St Anthony Falls Up L&D	IL Peoria	Illinois R	P	90.0	836.0	810.0	5,950	0	FCA.
Starved Rock L&D	IL Peoria	Illinois R	N	0.0	750.0	750.0	50	50	RHA of 1937 1945.
Upper Appleton L&D	IL Peoria	Illinois R	N	17.4	801.0	799.0	8,800	8,600	RHA of 1937 1945.
Upper Kaukauna L&D	IL Peoria	Illinois R	N	1.0	459.0	458.0	1,155	1,020	PL 69-100.
White Rock Dam & Res	IL Peoria	Illinois R	N	7.4	738.7	735.4	1,171	1,040	RHA of 1882 1885.
Winnebagoishish Dam & Res	IL Peoria	Illinois R	N	1.1	656.8	652.8	134	115	RHA of 1882 1885.
	IL Peoria	Illinois R	FC	78.6	981.0	972.0	10,500	4,000	FCA 1936.
	IL Peoria	Illinois R	N	98.7	1,300.9	1,296.9	98,700	62,000	RHA of 1899.

New England Division									
Ball Mountain Lk	VT Windham	West R	F	52.4	1,017.0	830.5	810	20	PL 78-534, 83-780.
Barre Falls Dam	MA Worcester	Ware R	F	24.0	807.0	761.0	1,400	0	PL 78-228.
Birch Hill Dam	MA Worcester	Millers R	F	49.9	852.0	815.0	3,200	0	PL 75-761.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Black Rock Lk	CT Litchfield	Branch Brook	F	8.5	520.0	437.0	190	21	PL 86-45.
Blackwater Dam	NH Merrimack	Blackwater R	F	46.0	566.0	515.0	3,280	0	PL 75-111.
Buffumville Lk	MA Worcester	Little R	F	11.3	524.0	492.5	530	200	PL 77-228.
Colebrook River Lk	CT Litchfield	West Branch	F	50.2	761.0	708.0	1,185	750	PL 86-645.
Conant Brook Dam	MA Berkshire	Farmington R.	F	3.7	757.0	694.0	158	0	PL 86-645.
East Brimfield Lk	MA Hampden, Worces- ter.	Conant Brook	F	29.9	653.0	632.0	2,300	360	PL 77-228.
Edward MacDowell Lk	NH Hillsboro	Nubanusit Brook	F	12.8	946.0	911.0	840	165	PL 75-111.
Everett Lk	NH Hillsboro, Merrimack	Piscataquog R	F	91.5	418.0	340.0	2,900	130	PL 75-761.
Franklin Falls Dam	NH Belknap, Merrimack	Pemigewasset R	F	150.6	389.0	307.0	2,800	440	PL 75-111.
Hancock Brook Lk	CT Litchfield	Hancock Brook	F	3.9	484.0	460.0	266	40	PL 86-645.
Hodges Village Dam	MA Worcester	French R	F	13.3	501.0	465.5	740	0	PL 77-228.
Hop Brook Lk	CT New Haven	Hop Brook	F	6.9	364.0	310.0	270	21	PL 86-645.
Hopkinton Lk	NH Merrimack	Contoocook R	F	70.1	416.0	380.0	3,700	220	PL 75-761.
Knightville Dam	MA Hampshire	Westfield R	F	49.0	610.0	480.0	960	0	PL 75-761.
Littleville Lk	MA Hampden, Hamp- shire.	Middle Br, Westfield R ..	F	23.0	576.0	518.0	510	275	PL 85-500.
Mansfield Hollow Lk	CT Tolland	Natchaug R	F	49.2	257.0	205.5	1,880	200	PL 77-228.
New Bedford-Fairhaven Hurr Barrier ..	MA Bristol	Otaouchee R	F	0.0	0.0	0.0	0	0	PL 85-500.
North Hardland Lk	VT Windsor	Black R	F	68.8	546.5	425.0	1,100	215	PL 75-761.
North Springfield Lk	VT Windsor	Northfield Br	F	50.0	545.5	467.0	1,200	100	PL 75-761.
Northfield Br Lk	CT Litchfield	Otter Brook	F	2.4	576.0	500.0	67	7	PL 86-645.
Otter Br Lk	NH Cheshire	Ashuelot R	F	17.6	781.0	701.0	374	70	PL 83-780.
Stamford Hurr Barrier	CT Fairfield	Naugatuck R	F	0.0	0.0	0.0	0	0	PL 86-645.
Surry Mountain Lk	NH Cheshire	West R	F	31.7	550.0	500.0	970	260	PL 75-761.
Thomaston Dam	CT Litchfield	East Br Tully R	F	42.0	494.0	380.0	960	0	PL 78-534.
Townshend Lk	VT Windham	Ompompanoosuc R	F	32.9	553.0	478.0	735	95	PL 78-534, PL 83-780.
Tully Lk	MA Worcester	West R	F	20.5	668.0	636.0	1,130	78	PL 75-761.
Union Village Dam	VT Orange	Quinebaug R	F	38.0	564.0	420.0	740	0	PL 74-738.
West Hill Dam	MA Worcester	Quinebaug R	F	12.4	284.0	234.0	1,025	0	PL 78-534.
West Thompson	CT Windham	Quinebaug R	F	25.6	342.5	305.0	1,250	200	PL 86-645.
Westville Lake	MA Worcester	Quinebaug R	F	11.0	572.0	525.0	913	23	PL 77-228.
North Pacific Division									
Albent Falls Dam, Lk Pend, Oreille	ID Bonner	Pend Oreille R	PNP	1,155.0	2,062.5	2,049.7	95,000	86,000	PL 81-516.
Applegate Lk	OR Jackson	Applegate R	FIR	75.2	1,987.0	1,854.0	988	221	FCA 1962, PL 87-874,
Big Cliff Dam	OR Marion, Linn	N Santiam R	P	3.5	1,206.0	1,182.0	130	98	PL 87-874.
Blue River Lk	OR Lane	Blue R	F	6.5	1,357.0	1,350.0	975	940	HD 544, PL 75-761, PL
			FNI	78.8	1,350.0	1,180.0	940	133	87-874.
									HD 531.
									PL 81-516.

Bonneville L&D Lk	WA Skamania	Columbia R	NP	138.0	77.0	70.0	20,800	19,850	RHA 1935.
Chena River Lakes	AK North Star Borough	Chena R	F	34.0	506.7	490.0	5,400	400	PL 90-483.
Chief Joseph Dam Rufus Woods Lk ..	WA Douglas, Okanogan	Columbia R	P	192.3	956.0	930.0	8,400	6,800	HD 693, PL 79-525.
Cottage Grove Lk	OR Lane	Coast Fk, Willamete R ..	F	29.8	791.0	750.0	1,155	295	HD 544, PL 75-761.
Cougar Lk	OR Lane	South Fk	F	11.3	1,699.0	1,690.0	1,280	1,235	HD 531.
			FNPI	143.9	1,690.0	1,532.0	1,235	635	PL 81-516.
			P	9.9	1,532.0	1,516.0	635	602	PL 83-870.
			F	19.1	1,569.0	1,563.0	3,490	3,455	HD 544, PL 75-761.
Detroit Lk	OR Marion	North Santiam	FNPI	281.6	1,563.5	1,450.0	3,455	1,725	
			P	40.3	1,450.0	1,425.0	1,725	1,415	
Dexter Dam	OR Lane	Middle Fk, Willamette R ..	FNPI	4.8	695.0	690.0	990	940	HD 544, PL 75-761.
Dorena Lk	OR Lane	Cow R	F	5.5	835.0	832.0	1,885	1,815	HD 544.
Dworshak Dam and Res	ID Clearwater	North Fk, Clearwater R ..	FNI	65.0	832.0	770.5	1,815	520	PL 75-761.
Fall Cr Dam and Lk	OR Lane	Fall Cr	FNP	2,016.0	1,600.0	1,445.0	17,090	9,050	HD 403, PL 87-874.
			F	7.5	834.0	830.0	1,865	1,760	HD 531.
Fern Ridge Lk	OR Lane	Long Tom R	FNI	107.5	830.0	728.0	1,760	460	PL 81-516
			F	15.7	375.1	373.5	10,305	9,340	HD 544.
Foster Lake	OR Linn	South Santiam R	FNI	93.9	373.5	353.0	9,340	1,515	PL 75-761
			F	4.9	641.0	637.0	1,260	1,195	HD 544
Green Peter Lk	OR Linn	Middle Fk, Santiam R ...	FNPI	24.9	637.0	613.0	1,195	895	PL 86-645
			F	18.3	1,015.0	1,010.0	3,705	3,605	HD 531.
Hills Creek Lk	OR Lane	Middle Fk, Willamette R ..	FNPI	249.9	1,010.0	992.0	3,605	2,072	PL 81-516, PL 83-780.
			F	5.6	1,543.0	1,541.0	2,850	2,710	HD 531.
Howard Hanson Dam	WA King	Green R	FNPI	194.6	1,541.0	1,448.0	2,710	1,575	PL 81-516.
			F	80.0	1,206.0	1,141.0	1,750	763	HD 531.
Ice Harbor Dam Lk Sacajawea	WA Walla, Walla, Frank- lin,	Snake R	FA	25.6	1,141.0	1,040.0	763	13	PL 81-516.
			NP	24.9	440.0	437.0	8,370	8,210	HD 704, PL 79-14.
John Day Dam Lk Umatilla	OR Sherman	Columbia R	F	158.0	268.0	265.0	55,000	52,000	HD 531.
			FNP	150.0	265.0	262.0	52,000	49,000	PL 81-516.
			F	192.0	262.0	257.0	42,000	42,000	
Libby Dam Lk Kootcanusa	MT Lincoln	Kootenai R	FP	4,979.5	2,459.0	2,287.0	46,365	14,391	HD 531, PL 81-516.
Little Goose L&D Lk Bryan	WA Columbia, Whitman ..	Snake R	PN	49.0	638.0	633.0	10,030	9,620	HD 704, PL 79-14.
Lookout Point Lk	OR Lane	Middle Fk, Willamette R ..	P	12.2	825.0	819.0	2,090	1,860	HD 544.
			FNPI	324.2	926.0	825.0	4,255	2,090	PL 75-761.
Lost Creek Lk	OR Jackson	Rogue R	FPIR	315.0	1,872.0	1,751.0	3,430	1,800	HD 566, PL 87-874.
Lower Granite L&D	WA Garfield, Whitman ..	Snake R	NPI	43.6	738.0	733.0	8,900	8,540	HD 704, PL 79-14.
Lucky Peak Dam and Lk	ID Ada	Boise R	F	13.9	3,060.0	3,055.0	2,817	2,745	PL 79-526.
			FI	264.4	3,055.0	2,905.0	2,817	802	
Lwr Monumental L&D Lk HG West ...	WA Walla, Walla, Frank- lin,	Snake R	NP	20.0	540.0	537.0	6,700	6,550	HD 704, PL 79-14.
McNary L&D, Dam Lk Wallula	WA Benton	Columbia R	NP	185.0	340.0	335.0	38,800	36,000	HD 704, PL 79-14.
Mill Creek Dam Lk	OR Umatilla	Mill Cr	NP	.....	.....	.....	.....	.....
Mud Mountain Dam	WA Walla, Walla	White R	F	7.5	1,265.0	1,205.0	225	53	HD 578, PL 75-761.
The Dalles L&D Lk Cello	WA King, Pierce	Columbia R	F	106.3	1,215.0	895.0	963	0	PL 74-738.
	WA Klickitat		NP	52.5	160.0	155.0	11,200	10,350	HD 531, PL 81-516.
	OR Wasco		NP	.....	.....	.....	.....	.....
Willow Creek Lk	OR Morrow	Willow Cr	F	11.6	2,113.5	2,047.0	269	96	PL 89-298.
Wynoochee Dam and Lk	WA Grays, Harbor	Wynoochee R	FMCA	65.4	800.0	700.0	1,170	193	HD 601, PL 93-251.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project pur- pose ²	Storage 1,000 AF	Ohio River Division				Auth legis ³
					Elev limits feet M.S.L.	Area in acres			
						Upper	Lower		
Allegheny L&D 2	PA Allegheny	Allegheny R	N	0.0	721.0	710.0	0	0	RHA 1935.
Allegheny L&D 3	PA Allegheny	Allegheny R	N	0.0	734.5	721.0	0	0	RHA 1935.
Allegheny L&D 4	PA Allegheny Westmore- land.	Allegheny R	N	0.0	745.0	734.5	0	0	RHA 1912.
Allegheny L&D 5	PA Armstrong	Allegheny R	N	0.0	756.8	745.0	0	0	RHA 1912
Allegheny L&D 6	PA Armstrong	Allegheny R	N	0.0	769.0	756.8	0	0	RHA 1912.
Allegheny L&D 7	PA Armstrong	Allegheny R	N	0.0	782.1	769.0	0	0	RHA 1912.
Allegheny L&D 8	PA Armstrong	Allegheny R	N	0.0	800.0	782.1	0	0	RHA 1912, 1935.
Allegheny L&D 9	PA Armstrong	Allegheny R	N	0.0	822.0	800.0	0	0	RHA 1935.
Allegheny Res Kinzua Dam	PA Warren	Allegheny R	F	607.0	1,365.0	1,328.0	21,180	12,080	PL 74–738.
Alum Cr Lk	OH Delaware	Alum Cr	FPCAR	549.0	1,328.0	1,240.0	12,080	1,900	PL 75–761.
Atwood Lk	OH Tuscarawas	Indian Cr	F	53.1	901.0	888.0	4,852	3,387	PL 87–874.
Barkley Dam Lk Barkley	Ky Lyon, Livngst	Cumberland R	F	79.2	888.0	885.0	3,387	3,105	PW 1933.
Barren River Lk	KY Allen, Barren	Barren R	F	26.1	941.0	928.0	2,460	1,540	PL 79–525.
Beach City Lk	OH Tuscarawas	Sugar Cr	FCR	7.6	928.0	922.5	1,540	1,250	PL 75–261.
Beech Fk Lk	WV Wayne	Beech Fk Cr	F	1,213.0	375.0	359.0	93,430	57,920	PW 1933.
Belleville L&D	WV Wood	Ohio R	FP	259.0	359.0	354.0	57,920	45,210	PL 87–874.
Berlin Lk	OH Meigs	Ohio R	F	610.0	354.0	233.0	45,210	0	RHA 1909.
Bluestone Lk	OH Mahoning, Portage ..	Manoning R	F	568.8	590.0	552.0	20,150	10,000	PL 75–761.
Bolivar Dam	WV Summers	New R	FMR	190.3	552.0	525.0	10,000	4,340	PW 1933.
Bohlar Dam	OH Stark, Tuscarawas ..	Sandy Cr	F	69.9	976.5	948.0	6,150	420	PL 87–874.
Brookville Lk	IN Franklin	E Fork of Whitewater R ..	FCR	0.0	0.0	0.0	0	0	RHA 1909.
Buckhorn Lk	KY Leslie	Middle Fk of Kentucky R ..	F	28.3	614.5	592.0	1,847	725	PL 75–761.
Burnsville Lk	WV Braxton	L Kanawha R	FR	5.0	592.0	583.5	725	460	PL 75–761.
CJ Brown Dam & Res	OH Clark	Buck Cr	F	0.0	582.0	560.0	0	0	PL 75–761.
CM Harden Lk	IN Parke	Raccoon Cr	FCAR	38.3	1,032.0	1,024.7	5,500	3,590	PL 87–874.
Caesar Cr Lk	OH Warren	Caesar Cr	F	56.6	1,024.7	1,016.5	3,590	2,200	PL 75–761.
			F	592.6	1,520.0	1,410.0	9,180	2,040	PL 74–738.
			F	7.5	1,410.0	1,406.0	2,040	1,800	PL 75–761.
			F	149.6	962.0	895.0	6,500	0	PW 1933.
			FMR	128.4	748.0	713.0	5,260	2,430	PL 75–761.
			F	135.8	840.0	782.0	3,610	1,230	PL 75–761.
			FR	21.8	782.0	757.0	1,230	550	PL 75–761.
			F	51.5	825.0	789.0	1,902	965	PL 75–761.
			FCAR	10.2	789.0	776.0	965	553	PL 75–761.
			F	26.8	1,023.0	1,012.0	2,720	2,120	PL 87–874.
			F	83.5	690.0	661.0	3,910	2,060	PL 75–761.
			F	33.1	661.0	640.0	2,060	1,100	PL 75–761.
			F	140.2	883.0	849.0	6,110	2,830	PL 75–761.
			F	88.7	849.0	800.0	2,830	700	PL 75–761.

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Cagles Mill Lk	IN Putman	Mill Cr	F	201.0	704.0	636.0	4,840	1,400	PL 75-761. RHA 1909
Cannelton L&D	KY Hancock	Ohio R	N	0.0	383.0	358.0	0	0	
Carr Fk Lk	IN Perry	Carr Cr	F	25.1	1,055.0	1,027.0	1,120	710	PL 87-874.
Cave Run Lk	KY Knott	Licking R	FAR	10.8	1,027.0	1,009.0	710	530	
Center Hill Lk	KY Rowan	Licking R	F	391.5	765.0	730.0	14,870	8,270	PL 74-738
Charles Mill Lk	TN Dekalb	Caney Fk	FAR	75.3	730.0	720.0	8,270	6,790	
Cheatham L&D	OH Ashland	Black Fk	F	762.0	685.0	648.0	23,060	18,220	PL 75-761.
Clendening Lk	OH Harrison	Brush Fk	P	492.0	648.0	618.0	18,220	14,590	
Conemaugh River Lk	PA Indiana, Westmore- land	Conemaugh R	F	80.6	1,020.0	997.0	6,050	1,350	PW 1933.
Cordell Hull Dam & Res	TN Cheatham	Cumberland R	FCR	4.5	997.0	993.0	1,350	827	
Crooked Cr Lk	PA Armstrong	Crooked Cr	P	19.8	385.0	382.0	7,450	5,630	RHA 1946, PL 396.
Dale Hollow Lk	TN Clay	Obey R	N	84.2	382.0	345.0	5,630	0	PL 396.
Dashields L&D	PA Allegheny	Ohio R	F	27.5	910.5	898.0	2,620	1,800	PW 1933.
Deer Cr Lk	OH Pickaway	Deer Cr	FCR	8.0	898.0	893.0	1,800	1,430	
Delaware Lk	OH Delaware	Olentangy R	F	270.0	975.0	880.0	6,820	300	PL 74-738, PL 75-761.
Dewey Lk	KY Floyd	Johns Cr	PR	17.8	504.5	499.0	12,200	9,820	RHA 1946.
Dillon Lk	OH Muskingum	Licking R	NR	0.0	499.0	424.0	9,820	0	
Dover Dam	OH Tuscarawas	Tuscarawas R	F	89.4	920.0	840.0	1,940	350	PL 74-738, PL 75-761.
E Br Clarion River Lake	PA Elk	E Br Clarion R	F	353.0	663.0	651.0	30,990	27,700	PL 75-761.
E Fk Res Wm H Harsha Lk	OH Clermont	E Fk Little Miami R	P	496.0	651.0	631.0	27,700	21,880	
East Lynn Lk	WV Wayne	E Fk Twelvepole	N	0.0	692.0	682.0	0	0	RHA 1909.
Emsworth L&D	PA Allegheny	Ohio R	F	81.5	844.0	810.0	4,046	1,277	PL 75-761.
Fishtrap Lk	KY Pike	Levisa Fk	FCR	14.6	810.0	796.0	1,277	727	
Gallipolis L&D	WV Mason	Ohio R	F	118.0	947.0	915.0	8,550	1,270	PL 75-761
Grayson Lk	OH Gallia	L Sandy R	FCAR	5.6	915.0	910.0	1,270	950	
Green R L&D 1	KY Carter	Green R	F	76.1	686.0	650.0	3,340	1,100	PL 75-761
Green R L&D 2	KY Henderson	Green R	FCR	4.9	650.0	645.0	1,100	880	
Green River Lk	KY McLean	Green R	F	256.5	790.0	737.0	10,280	1,560	PL 75-761.
Greenup L&D 3	KY Greenup	Ohio R	FCR	4.4	737.0	734.0	1,560	1,330	
			F	203.0	916.0	858.0	10,100	0	PW 1933.
			F	19.0	1,685.0	1,670.0	1,370	1,160	PL 78-526.
			FCAR	19.8	1,670.0	1,651.0	1,160	920	
			F	202.2	795.0	733.0	4,600	2,160	PL 75-761.
			F	73.6	733.0	683.0	2,160	820	
			F	65.3	701.0	662.0	2,351	1,005	PL 75-761.
			FCR	5.5	662.0	656.0	1,005	823	
			N	0.0	710.0	692.0	0	0	RHA 1909.
			F	126.7	825.0	757.0	2,681	1,131	PL 75-761.
			FCAR	27.2	757.0	725.0	1,131	569	
			N	0.0	538.0	515.0	0	0	RHA 1935.
			F	89.6	681.0	645.0	3,633	1,509	PL 86-645.
			FCAR	10.7	645.0	637.0	1,509	1,159	
			N	0.0	349.1	337.3	0	0	RHA 1888.
			N	0.0	363.4	349.1	0	0	RHA 1888.
			F	479.1	713.0	675.0	19,100	8,210	PL 75-761.
			FAR	81.5	675.0	664.0	8,210	6,650	
			N	0.0	515.0	485.0	0	0	RHA 1909.

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Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Hambal L&D	OH Scioto	Ohio R	N	0.0	623.0	602.0	0	0	RHA 1909.
WV Wetzel	WV Monroe	Monongahela	N	0.0	835.0	814.0	0	0	RHA 1950.
Hidebrand L&D	WV Monongalia	Wabash R	F	140.6	798.0	749.0	7,900	900	PL 85–500.
Huntington Lk	IN Hunt	Stones R	FR	8.4	749.0	737.0	900	500	PL 75–761.
J Percy Priest Dam & Res	TN Davidson	Stones R	F	252.0	504.5	490.5	22,720	14,400	
			FP	15.0	489.5	489.5	14,000	14,000	
			FPR	0.0	489.5	483.0	11,630	10,570	
			PR	0.0	483.0	480.0	11,630	10,570	
JW Flannagan Dam & Res	VA Dickenson	Pound R	F	78.6	1,446.0	1,396.0	2,098	1,143	PL 75–761.
			FMC	16.5	1,396.0	1,380.0	1,143	310	
Kentucky R L&D 1	KY Carroll	Kentucky R	N	0.0	430.0	421.8	0	0	RHA 1879.
Kentucky R L&D 2	KY Henry Owen	Kentucky R	N	0.0	444.0	430.0	0	0	RHA 1879.
Kentucky R L&D 3	KY Henry Owen	Kentucky R	N	0.0	457.1	444.0	0	0	RHA 1879.
Kentucky R L&D 4	KY Franklin	Kentucky R	N	0.0	470.4	457.1	0	0	RHA 1879.
Laurel River Lk	KY Laurel, Whitley	Laurel R	P	185.0	1,018.5	982.0	6,060	4,200	PL 86–645.
Leesville Lake	OH Carroll	McGuire Cr.	R	250.6	982.0	760.0	4,200	0	
			F	17.9	977.5	963.0	1,470	1,000	PW 1933.
London L&D	WV Kanawha	Kanawha R	FCR	5.5	963.0	957.0	1,000	829	
Loyalhanna Lk	PA Westmoreland	Loyalhanna Cr	N	0.0	614.0	590.0	0	0	RHA 1930.
			F	93.3	975.0	910.0	3,280	210	PL 74–738.
M J Kirwan Dam & Res	OH Portage	W. Br Mahoning R	FC	0.0	0.0	0.0	0	0	PL 75–761.
			F	22.0	993.0	985.5	3,240	2,650	PL–74–738
Mahoning Cr Lk	PA Armstrong	Mahoning Cr	FCAR	52.9	985.5	951.0	2,650	570	PL 75–761.
			F	64.7	1,162.0	1,098.0	2,370	280	PL 74–738.
Markland L&D	IN Switzerland	Ohio R	FRC	5.1	1,098.0	1,075.0	280	170	PL 75–761.
			N	0.0	455.0	420.0	0	0	RHA 1909
Marmet L&D	KY Gallatin	Kanawha	N	0.0	590.0	566.0	0	0	RHA 1930.
Martins Fk Lk	WV Kanawha R	Martins Fk of Clover R	F	14.3	1,341.0	1,310.0	578	340	PL 89–298.
	KY Harlan		FAR	3.1	1,310.0	1,300.0	340	274	
			R	3.7	1,300.0	1,265.0	274	0	
Maxwell L&D	PA Fayette Washington	Monongahela R	N	0.0	763.0	743.5	0	0	RHA 1909.
McAlpine L&D	KY Jefferson	Ohio R	N	0.0	420.0	383.0	0	0	RHA 1909.
	IN Clark		N	0.0	420.0	383.0	0	0	
Meldahl L&D	KY Bracken	Ohio R	N	0.0	485.0	455.0	0	0	RHA 1909.
	OH Clermont		N	0.0	485.0	455.0	0	0	
Mississinewa Lk	IN Miami	Mississinewa R	F	293.2	779.0	737.0	12,830	3,180	PL 85–500.
			FR	51.9	737.0	712.0	3,180	1,280	
Mohawk Dam	OH Coshocton	Walhonding R	F	285.0	890.0	799.2	7,950	0	PW 1933.
Mohicanville Dam	OH Ashland	Lk Fork	F	102.0	963.0	932.0	8,800	0	PW 1933.
Monongahela R L&D 2	PA Allegheny	Monongahela R	N	0.0	718.7	710.0	0	0	RHA 1902.
Monongahela R L&D 3	PA Allegheny	Monongahela R	N	0.0	726.9	718.7	0	0	RHA 1905.

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Monongahela R L&R 4	PA Washington West- moreland	Monongahela R	N	0.0	743.5	726.9	0	0	RHA 1909.
Monongahela R L&D 7	PA Greene, Fayette	Monongahela R	N	0.0	778.0	763.0	0	0	RHA 1922.
Monongahela R L&D 8	PA Greene, Fayette	Monongahela R	N	0.0	797.0	778.0	0	0	RHA 1922, 1950, 1973.
Monroe Lk	IN Monroe	Salt Cr	F	258.8	556.0	538.0	18,450	10,750	FCA 1958.
Montgomery Island L&D	PA Beaver	Ohio R	FMA	159.9	538.0	515.0	10,750	3,280	
Morgantown L&D	WV Monongalia	N	N	0.0	682.0	664.5	0	0	RHA 1909.
	Monongahela R	N	0.0	814.0	797.0	0	0	0	RHA
Mosquito Cr Lk	OH Trumbull	Mosquito Cr	F	21.7	904.0	901.4	8,900	7,850	PL 75-761.
			FMCAR	80.4	901.4	899.9	7,850	7,220	
N Br Kokosing River Lk	OH Knox	North Br of Kokosing R	F	13.9	1,146.0	1,121.0	1,140	154	PL 87-874.
N Fk Pound Lk	VA Wise	N Fk Pound R	F	8.0	1,644.0	1,611.0	349	154	PL 86-645.
			FMCAR	1.3	1,611.0	1,601.0	154	106	
New Cumberland L&D	WV Hancock	Ohio R	N	0.0	664.5	644.0	0	0	RHA 1909.
	OH Jefferson	Ohio R	N	0.0	358.0	342.0	0	0	RHA 1909.
Newburgh L&D	KY Henderson	Ohio R	N	0.0	358.0	342.0	0	0	RHA 1909.
	IN Warrick	Nolin R	F	439.2	560.0	515.0	14,530	5,790	PL 75-761.
	KY Edmonson	Nolin R	FR	106.4	515.0	490.0	5,790	2,890	
Ohio R L&D 52	KY McCracken	Ohio R	N	0.0	302.0	290.0	0	0	RHA 1909, 1910, 1918.
Ohio R L&D 53	IL Massac	Ohio R	N	0.0	290.0	276.6	0	0	RHA 1909, 1910, 1918.
	KY Ballard	Ohio R	N	0.0	290.0	276.6	0	0	RHA 1909, 1910, 1918.
	IL Pulaski	Ohio R	N	0.0	290.0	276.6	0	0	RHA 1909, 1910, 1918.
Old Hickory L&D	TN Davidson Summer	Cumberland R	P	63.0	445.0	442.0	22,500	19,550	RHA 1946.
			N	357.0	442.0	375.0	19,550	0	
Opeskiska L&D	WV Monongahela	Monongahela R	N	0.0	857.0	835.0	0	0	RHA 1950.
Paint Cr Lk	OH Ross, Highland	Paint Cr	F	124.7	845.0	798.0	4,761	1,190	PL 75-761.
			FMCAR	11.4	798.0	787.5	1,190	770	
Paintsville Lk	KY Johnson	Paint Cr	F	32.8	731.0	709.0	1,867	1,139	PL 89-298.
			FCAR	36.3	709.0	650.0	1,139	261	
Patoka Lk	IN DuBois	Patoka R	F	121.1	548.0	536.0	11,300	8,880	PL 89-298.
			FMCAR	167.3	536.0	506.0	8,880	2,010	
Piedmont Lk	OH Harrison	Stillwater Cr	F	32.2	924.6	913.0	3,170	2,310	PW 1933.
			FCR	8.6	913.0	909.0	2,310	1,967	
Pike Island L&D	WV Ohio	Ohio R	N	0.0	644.0	623.0	0	0	RHA 1909.
	OH Belmont	Ohio R	N	0.0	644.0	623.0	0	0	RHA 1909.
	OH Ashland	Clear Fk	F	74.2	1,065.0	1,020.0	2,600	850	PW 1933.
Pleasant Hill Lk			FCR	5.5	1,020.0	1,012.5	850	627	
R D Bailey Lk	WV Mingo, Wyoming	Guyandot R	F	189.5	1,155.0	1,035.0	2,850	630	PL 87-874.
			FCAR	12.2	1,035.0	1,012.0	630	440	
Racine L&D	WV Mason	Ohio R	N	0.0	560.0	538.0	0	0	RHA 1909.
	OH Meigs								
Rough River Lk	Grayson, Breckinridge	Rough R	F	214.4	524.0	495.0	10,260	5,100	PL 75-761.
	Ridge		FMR	90.2	495.0	470.0	5,100	2,180	
Salamonie Lk	IN Wabash	Salamonie R	F	202.9	793.0	755.0	9,340	2,860	PL 85-500.
			FR	47.6	755.0	730.0	2,860	976	
Senecaville Lk	OH Guernsey	Seneca Fk	F	45.1	842.5	832.2	5,170	3,550	PW 1933.
			FCR	12.8	832.2	828.2	3,550	2,912	
Shenango River Lk	PA Mercer	Shenango R	F	151.0	919.0	896.0	11,090	3,560	PL 75-761.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Smithland L&D	KY Livingston	Ohio R	FCAR N	29.9 0.0	896.0 324.0	885.0 302.0	3,560 0	1,910 0	RHA 1909.
Summersville Lk	WV Nicholas	Gauley R	F	221.9	1,710.0	1,165.0	4,913	2,790	PL 75–761.
Sutton Lk	WV Braxton	Elk R	FRCA	161.8	1,652.0	1,535.0	2,790	514	PL 75–761.
Tappan Lk	OH Harrison	L Stillwater Cr	FCAR	60.0	925.0	850.0	1,520	270	PW 1933.
Tonesta Lk	PA Forest	Tionesta Cr	FCR	26.5	899.3	894.0	2,350	1,960	PL 74–738.
Tom Jenkins Dam, Burr Oak, Lk	OH Athens	E Br Sandy Cr	F	11.4	1,170.0	1,085.0	2,770	480	PL 75–761.
Tygart Lake	WV Taylor	Tygart R	FRM	125.6	740.0	721.0	1,192	664	FCA 1944.
Union City Res	PA Erie	French Cr	F	17.6	721.0	710.0	664	394	PL 78–534.
Uniontown L&D	PA Erie	French Cr	FMACR	5.8	721.0	710.0	3,430	1,740	PWA 1934.
W Fk of Mill Cr Winton Woods Lk	OH Hamilton	W Fk Mill Cr	F	178.1	1,167.0	1,094.0	1,740	620	PL 87–874.
Willow Island L&D	OH Hamilton	Ohio R	F	99.9	1,094.0	1,010.0	2,290	0	RHA 1909.
Wills Cr Lk	OH Pleasant	Ohio R	N	47.6	1,278.0	1,210.0	0	0	PL 79–526.
Winfield L&D	OH Washington	W Fk Mill Cr	F	0.0	342.0	324.0	557	183	RHA 1909.
Wolf Cr Dam, Lk Cumberland	OH Coshocton Wills Cr, Muskingum.	Ohio R	F	9.8	702.0	675.0	0	0	PW 1933.
Woodcock Cr Lk	WV Putnam	Kanawha R	CR	0.0	0.0	0.0	11,450	900	PL 79–526.
Youghiogheny R Lk	WV Putnam	Kanawha R	N	0.0	566.0	538.0	0	0	RHA 1935.
	KY Russell	Cumberland R	P	2,142.0	723.0	673.0	0	0	PL 75–761.
	PA Crawford	Woodcock Cr	F	2,094.0	760.0	723.0	50,250	35,820	FCA 1962.
	PA Fayette	Youghiogheny R	FCAR	15.0	1,209.0	1,181.0	63,530	50,250	FCA 1962.
			F	5.0	1,181.0	1,162.5	775	325	FCA 1938.
			F	99.5	1,470.0	1,439.0	3,570	2,840	
			FCAR	149.3	1,439.0	1,419.0	2,840	2,300	
South Atlantic Division									
Aberdeen L&D and Res	MS Monroe	Tombigbee R	N	3.9	190.5	189.5	4,359	3,883	PL 79–525.
Alceville Lock Dam & Res	AL Pickens	Tombigbee R	N	7.6	136.5	135.5	8,655	7,945	PL 79–525.
Alatoona Dam & Res	GA Bartow	Etowah R	F	302.6	860.0	840.0	19,201	11,862	PL 77–228.
B Everett Jordan Dam & Lk	NC Chatham	Haw R	PMAR	284.6	840.0	800.0	11,862	3,251	PL 88–253.
Bay Springs Lock Dam & Res	MS Tishomingo	Tombigbee R	FMAR	140.4	216.0	202.0	13,942	6,658	PL 79–525.
Bulford Dam Lk, Sidney Lanier	GA Forsyth, Gwinnett	Chatahoochee R	N	37.0	414.0	408.0	6,700	5,740	PL 79–14.
Canter's Dam & Res	GA Murray	Coosawattee R	PNMR	598.8	1,085.0	1,071.0	47,182	38,542	PL 79–14.
			F	1,087.6	1,071.0	1,035.0	38,542	22,442	PL 79–14.
			PRA	89.2	1,099.0	1,074.0	3,880	3,275	
				41.4	1,074.0	1,022.0	3,275	2,196	

Claborne Lock Dam & Res	AL Monroe	Alabama R	N	16.6	35.0	32.0	5,930	5,210	PL 79-14,
Clarks Hill Dam & Lk	GA Columbia	Savannah R	F	390.0	335.0	330.0	71,100	71,100	PL 78-534.
	SC McCormick		FP	1,045.0	330.0	312.0	71,100	45,000	
Coffeaville Lock Dam & Res	AL Clark, Choctaw	Tombigbee R	N	19.9	32.5	30.0	8,500	7,500	PL 60-317.
Columbus Lock Dam & Res	MS Lowndes	Tombigbee R	N	8.5	163.5	162.5	9,400	8,500	PL 79-525.
Demopolis Lock Dam & Res	AL Sumter, Marengo	Tombigbee R	N	0.0	73.0	73.0	10,000	10,000	PL 60-317.
Falls Dam & Lk	NC Wake	Neuse R	F	220.9	264.0	250.1	20,810	11,310	PL 89-298.
			FMCAR	89.7	250.1	236.5	11,310	2,600	
G W Andrews L&D and Res	AL Houston	Chattahoochee R	N	8.2	102.0	96.0	1,540	1,190	PL 79-14.
	GA Early		N	.....	.....	.....	.....	.....
Gainesville L&D and Res	AL Sumter, Greene	Tombigbee R	N	5.8	109.5	108.5	6,920	5,900	PL 79-525.
Hartwell Dam & Lk	GA Hart	Savannah R	F	293.0	665.0	660.0	61,400	55,950	PL 81-516.
	SC Anderson		FP	1,416.0	660.0	625.0	55,950	27,650	
Holt Lock Dam & Res	AL Tuscaloosa	Black Warrior R	NP	3.3	187.0	186.0	3,296	3,252	PL 60-317.
Inglis Dam Lk Rousseau	FL Levy, Marion, Citrus	Cross FL Barge Canal	N	13.0	27.5	24.0	4,030	2,040	PL 77-675.
Jim Woodruff L&D	FL Gadsden, Jackson	Apalachicola R	NP	20.0	77.5	76.5	38,850	36,000	PL 79-14.
John H Kerr Dam & Res	VA Mecklenburg	Roanoke R	FP	1,281.4	320.0	300.0	83,200	48,900	PL 78-534.
			FP	1,027.0	300.0	268.0	48,900	19,700	
John Hollis Bankhead L&D and Res	AL Tuscaloosa	Black Warrior R	NP	27.1	255.0	252.0	9,245	8,730	PL 60-168.
Lk Okeechobee	FL Okeechobee, Glades, Hendry, Palm Beach, Martin.	Central and Southern FL	FNIMC	2,859.0	17.5	10.5	454,900	326,000	PL 71-520, PL 75-392, PL 79-14, PL 80-858, PL 83-780, PL 90.
Lock A	MS Monroe	Tombigbee R	N	0.9	220.5	219.5	980	850	PL 79-525.
Lock B	MS Monroe	Tombigbee R	N	2.7	245.5	244.5	2,841	2,615	PL 79-525.
Lock C	MS Itawamba	Tombigbee R	N	1.6	270.5	269.5	1,699	1,586	PL 79-525.
Lock D	MS Itawamba	Tombigbee R	N	2.0	300.5	299.5	2,021	1,959	PL 79-525.
Lock E	MS Itawamba, Prentiss	Tombigbee R	N	0.9	330.5	329.5	889	821	PL 79-525.
Millers Ferry L&D	AL Wilcox	Alabama R	NP	16.7	80.0	79.0	17,201	16,160	PL 79-14.
Okeatchee Dam & Res	MS Lauderdale	Okatibbee Cr	F	46.5	352.0	343.0	6,580	3,800	PL 87-874.
	VA Henry	Smith R	RMA	34.3	343.0	328.0	3,800	1,275	
Philpott Dam & Lk			F	34.2	985.0	974.0	3,370	2,880	PL 78-534.
R B Russell Dam and Lk	GA Elbert	Savannah R	FP	111.2	974.0	920.0	2,880	1,350	
	SC Abbeville		FP	126.8	475.0	470.0	29,340	26,653	PL 89-789.
Robert F Henry Lock Dam & Res	AL Autauga, Lowndes	Alabama R	NP	44.6	125.0	124.0	26,653	24,117	
Rodman Dam & Lk Ocklawaha	FL Putman & Marion	Cross FL Barge Canal	N	48.0	23.2	20.0	13,300	10,470	PL 79-14.
S-10 & Water Cons Area 1	FL Palm Beach	Central and Southern FL	F	181.9	18.3	17.0	17,350	12,950	PL 77-675.
			F	273.2	17.0	14.0	141,250	141,250	PL 80-858.
S-11 & Water Cons Area 2A	FL Palm Beach Broward	Central and Southern FL	F	236.3	16.6	14.5	110,500	26,000	
			F	165.0	14.5	13.0	110,500	110,500	PL 80-858.
S-12 & Water Cons Area 3A	FL Broward & Dade	Central and Southern FL	F	1,661.0	14.5	10.5	487,200	107,500	PL 83-780.
			F	465.0	10.5	9.5	385,000	385,000	PL 80-858.
Selden Lock and Res	AL Hale, Greene	Black Warrior R	F	9.1	95.5	94.0	8,200	6,900	PL 83-780.
W Kerr Scott Dam & Res	NC Wilkes	Yadkin R	N	112.0	1,075.0	1,030.0	4,000	1,475	PL 60-317.
			F	33.0	1,030.0	1,000.0	1,475	675	PL 79-526.
Walter F George L&D	GA Clay	Chattahoochee R	NP	244.0	190.0	184.0	45,181	36,375	PL 81-516.
	AL Henry		N	.....	.....	.....	.....	.....
West Point Dam & Res	GA Troup	Chattahoochee R	NPMAR	306.1	635.0	620.0	25,864	15,512	PL 87-874.
William Bacon Oliver L&D and Res	AL Tuscaloosa	Black Warrior R	N	0	122.9	122.9	790	790	PL 60-317.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
South Pacific Division									
	AZ Mohave, Yuma	Bill Williams R	F	1,046.2	1,235.0	1,174.0	13,307	7,045	PL 78–534.
	CA Mariposa	Bear Cr	F	7.7	413.5	344.0	285	0	PL 78–534.
	CA Tehama	Sony Cr	FI	137.1	473.5	414.6	4,453	577	PL 78–534.
	CA Orange	Brea Cr	F	4.0	279.0	208.0	163	0	FCA 1936.
	CA Madera	Chowchilla R	F	45.0	587.0	559.0	1,785	1,482	PL 78–874.
			FI	140.0	587.0	466.0	1,785	484	
	CA Merced	Burns Cr	F	6.8	300.0	266.0	662	0	PL 78–534.
	CA Orange	Carbon Cr	F	6.6	475.0	403.0	225	0	PL 74–738.
	CA Mendocino	East Fork, Russian R	F	50.1	764.8	737.5	1,922	1,740	PL 75–761.
			IM	72.3	737.5	637.0	1,740	20	
	CA Sonoma	Dry Cr	F	136.0	495.0	451.1	3,600	2,600	PL 87–874.
			MR	225.0	451.1	291.0	2,600	500	
	CA San Joaquin, Stanislaus	Littlejohn Cr	F	52.0	156.5	120.0	4,107	0	PL 78–534.
	CA Orange	Fullerton Cr	F	0.8	290.0	261.0	62	0	FCA 1936.
	CA Los Angeles	Tujunga Wash	F	25.4	1,060.0	990.0	781	0	FCA 1936.
	CA Madera	Fresno R	F	85.0	540.0	485.8	1,567	811	PL 87–874.
			FI	588.1	2,605.5	2,470.0	11,454	26	
	CA Kern	Kern R	F	0.4	1,272.9	1,253.7	40	0	PL 785–34.
	CA Los Angeles	Pocoma Wash	FI	15.0	439.5	370.0	512	0	FCA 1936.
	CA Mariposa	Mariposa Cr	F	19.6	5,838.0	5,780.0	762	61	PL 78–534.
	CA Nevada	Martis Cr	F	6.3	5,461.0	5,420.0	300	0	PL 87–874.
	NV Lincoln	Mathews Canyon	F	89.7	3,134.0	2,988.0	1,978	0	PL 81–516.
	CA San Bernardino	Mojave R	F	165.0	713.0	666.2	4,333	0	PL 86–645.
	CA Calaveras	Calaveras R	F	302.2	713.0	586.0	4,333	2,818	PL 78–534.
			FI	3.6	407.5	347.0	174	0	
	CA Mariposa	Owens Cr	F	2,491.5	661.0	524.0	53,200	0	PL 78–534.
	AZ Maricopa	Gila R	F	7.8	5,675.0	5,604.0	254	0	PL 81–516.
	NV Lincoln	Pine Canyon	F	1,000.0	951.5	565.5	5,956	0	PL 78–534.
	CA Fresno	Kings R	F	196.2	543.0	460.0	6,630	0	FCA 1936.
	CA Riverside	Santa Ana R	F	7.7	2,238.0	2,125.0	145	0	FCA 1936.
	CA San Antonio	San Antonio Cr	F	32.1	496.0	421.0	1,084	0	FCA 1936.
	CA Los Angeles	San Gabriel R	F	17.4	710.0	668.0	1,335	0	FCA 1936, 1941.
	CA Santa Fe Dam & Res	San Gabriel R	F	17.4	710.0	668.0	1,335	0	
	CA Sepulveda Dam & Res	Los Angeles R	F	75.0	652.5	588.9	2,477	409	PL 78–534.
	CA Success Lk	Tule R	FI	136.1	694.0	570.0	1,913	276	PL 78–534.
	CA Tulare	Kaweah R	FI	35.6	2,166.0	2,056.0	828	0	PL 79–526.
	Terminus Dam Lk Kaweah	Queen Cr	F	34.9	228.5	184.0	2,411	0	FCA 1936.
	Whitlow Ranch Dam & Res								
	Whittier Marrows Dam & Res	San Gabriel Rio Hondo R.	F						

Southwestern Division									
Abiquiu Dam	NM Rio Arriba	Rio Chama	F	572.2	6,283.5	6,220.0	7,469	4,120	PL 80-858.
Addicks Res	TX Harris	Buffalo Bayou	FM	191.3	6,220.0	6,060.0	4,120	0	0
Aquilla Lk	TX Hill	Aquilla Cr	F	200.8	112.0	71.1	16,423	3,280	HD250-83-2.
Arcadia Lk	OK Oklahoma	Deep Fork R	MR	161.4	564.5	537.5	8,980	26	PL 90-483.
B A Steinhagen Lk	TX Taylor, Jasper	Neches R	FMCR	93.6	537.5	478.6	3,280	1,820	PL 91-611.
Bardwell Lk	TX Ellis	Waxahachie Cr	F	64.4	1,029.5	1,006.0	3,820	20	SD98-76-1.
Barker Res	TX Harris Ft Bend	Buffalo Bayou	F	24.5	83.0	81.0	13,700	10,950	PL 86-399.
Beaver Lk	AR Carroll, Benton, Washington	White R	F	79.6	439.0	421.0	6,040	3,570	0
Belton Lk	TX Bell	Leon R	FPM	42.8	106.0	73.2	16,734	28,220	HD250-83-2, RHA 1938.
Benbrook Lk	TX Tarrant, Parker	Clear Fk Trinity R	F	209.6	1,130.0	1,120.0	31,700	15,540	PL 85-500.
Big Hill Lk	KN Labette	Big Hill Cr	MI	925.1	1,120.0	1,077.0	28,220	12,400	PL 79-526.
Birch Lk	OK Osage	Birch Cr	MI	640.0	631.0	594.0	23,600	42	HD88-81-1.
Blue Mountain Lk	AR Yell, Logan	Pettit Jean R	NM	372.7	594.0	470.0	12,400	3,770	HD103-771.
Broken Bow Lk	OK McCurtain	Mountain Fk R	F	170.4	724.0	694.0	7,630	730	PL 87-874.
Bull Shoals Lk	AR Baxter, Marion, Boone	White R	F	72.5	694.0	656.0	3,770	1,240	PL 87-874.
Canton Lk	MO Ozark, Taney	N Canadian R	FMR	13.1	867.5	858.0	1,520	70	HD572-87-2.
Canyon Lk	TX Comal	Guadalupe R	F	27.2	858.0	814.0	1,240	1,140	PL 87-874.
Clearwater Lk	MO Reynolds, Wayne	Black R	F	39.0	774.0	750.5	2,340	384	HD563-87-2.
Cochiti Lk	NM Sandoval, Santa Fe, Los Alamos	Rio Grande	F	15.8	750.5	730.0	1,140	2,910	PA 75-761.
Conchas Lk	NM San Miguel	Candian R	F	233.3	419.0	384.0	11,000	14,200	PL 85-500.
Copan Lk	OK Washington	L Caney R	FRPMAC	489.8	599.5	559.5	14,200	9,200	PL 77-228.
Council Grove Lk	KS Chautauqua	Neosho R	PF	2,360.0	695.0	654.0	71,240	33,800	PL 75-761.
DeQueen Lk	AR Sevier	Rolling Fork R	FMI	1,003.0	654.0	628.5	45,440	7,910	HD56-75-3.
Dierks Lk	AR Sevier, Howard	Saline R	F	97.2	1,615.4	1,596.5	7,910	8,240	PL 79-14.
Eldorado Lk	KS Butler	Walnut R	M	346.4	934.0	909.0	12,890	0	PL 75-761.
			F	366.4	909.0	75.0	8,240	1,630	PL 86-645.
			F	391.8	567.0	494.0	10,400	1,200	PL 86-645.
			F	545.0	5,460.5	5,356.6	9,361	0	0
			FRC	43.0	5,356.6	5,330.0	1,200	9,692	HD 308-74.
			F	198.8	4,218.0	4,201.0	13,664	3,000	PL 87-874.
			FI	259.6	4,201.0	4,155.0	9,692	4,850	HD563-87-2.
			F	184.3	732.0	710.0	13,360	110	PL 81-516.
			FMCA	42.8	710.0	687.5	4,850	42	PL 85-500.
			F	63.8	1,289.0	1,274.0	5,400	710	PL 85-500.
			FMAR	48.5	1,274.0	1,240.0	3,230	1,360	PL 85-500.
			F	101.3	473.5	437.0	4,050	810	PL 89-298.
			FMCRQ	25.5	437.0	415.0	1,680	8,000	HD232-89-1.
			F	67.1	557.5	526.0	2,970	420	
			FMCR	15.1	526.0	512.0	1,360		
			F	79.2	1,347.5	1,339.0	10,740		
			FMAR	154.0	1,339.0	1,296.0	8,000		

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Elk City Lk	KS Montgomery	Elk R	F	239.5	825.0	796.0	13,150	4,450	HD440–76–1.
Eufaula Lk	OK McIntosh, Pittsburg, Haskell.	Candian R	FMA F	44.8 1,510.9	796.0 597.0	764.0 585.0	4,450 147,960	64 105,480	PL 79–525.
Fall River Lk	KS Greenwood	Fall R	FNPM F	1,463.0 234.5	585.0 987.5	565.0 948.5	105,480 10,400	46,120 2,350	HD440–76–1.
Fort Gibson Lk	OK Wagoner	Neosho (Grand) R	FA F	15.0 919.2	948.5 582.0	940.0 554.0	2,350 51,000	1,170 19,900	FEC 1941.
Fort Supply Lk	OK Woodward	Wolf Cr	FP F	53.9 86.8	554.0 2,028.0	551.0 2,004.0	19,100 5,690	16,950 1,820	RHA 1946. PL 74–738.
Galisteo Dam	NM Santa Fe	Galisteo Cr	FM F	13.9 79.4	2,004.0 5,608.0	1,988.0 5,496.0	1,820 2,060	0 2,320	PL 86–645. PL 87–874.
Georgetown Lk	TX Williamson	N.F. San Gabriel R	MC F	29.2 188.7	791.0 569.0	699.0 502.0	1,310 4,680	0 1,370	HD 591–62–2. PL 85–500.
Gilham Lk	AR Howard, Polk	Cossatot R	FMCQ F	29.3 162.2	502.0 528.0	464.5 504.0	1,370 11,040	310 4,400	PL 87–874.
Granger Lk	TX Williamson	San Gabriel R	M F	37.9 243.1	504.0 560.0	440.0 535.0	4,400 12,710	0 7,280	HD103–77–1.
Grapevine Lk	TX Denton, Tarrant	Denton Cr	M F	154.3 240.0	535.0 1,138.5	451.0 1,125.0	7,380 27,730	41 8,693	PL 74–738.
Great Salt Plains Lk	OK Alfalfa	Salt Fk	FC F	31.4 934.0	1,125.0 487.0	1,115.0 461.0	8,690 40,480	0 31,460	PL 75–761.
Greers Ferry Lk	AR Cleburne, Van Buren	Little Red R	FP F	716.5 48.4	461.0 784.0	435.0 761.5	31,460 3,700	23,740 917	PL 83–780. PL 79–526.
Heyburn Lk	OK Creek	Polecat Cr	FM F	3.8 16.7	761.5 1,920.0	55.5 1,900.0	917 1,260	394 510	PL 77–228.
Hords Cr Lk	TX Coleman	Hords Cr	M F	5.8 809.1	1,900.0 437.5	1,848.0 404.5	510 34,490	0 13,250	PL 79–526.
Hugo Lk	OK Choctaw	Kiamichi R	FMCAR F	127.2 257.9	404.5 765.0	390.0 733.0	4,500 13,000	4,500 3,570	PL 74–738.
Hulah Lk	OK Osage	Caney R	FMA F	31.1 73.0	733.0 5,232.0	710.0 5,196.1	3,570 2,877	0 1,370	PL 84–843. PL 80–858. PL 81–516. PL 89–298.
Jemez Canyon Dam	NM Sandoval	Jemez R							
Joe Pool Lk	TX Dallas, Ellis, Tarrant ..	Mountain Cr	F	1,238.0	536.0	522.0	10,940	7,470	
John Martin Res	CO Bent	Arkansas R	M F	176.9 270.3	522.0 3,870.0	456.0 3,851.0	7,470 17,630	10 11,655	PL 74–738.
John Redmond Dam & Res	KS Coffee	Neosho R	FRC F	350.9 559.0	3,851.0 1,068.0	0.0 1,039.0	11,655 31,700	0 9,300	PL 81–516.
Kaw Lk	OK Kay, Osage	Arkansas R	FMAR F	70.8 919.4	1,039.0 1,044.5	1,020.0 1,010.0	9,300 17,040	108 17,040	PL 87–874.
Keystone Lk	KS Cowley	Arkansas R	FMARC F	343.5 1,180.0	1,010.0 754.0	978.0 723.0	38,020 54,300	5,590 23,600	PL 81–516.
	OK Tulsa		FNPMC	296.7	723.0	706.0	23,600	13,300	

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L&D 01, Norrell	AR Arkansas	Arkansas Post Canal	N	0.0	142.0	142.0	140	140	140	HD 758-79, RHA 1946.
L&D 02, Wilbur D. Mills Dam	AR Desha, Arkansas	Arkansas R	N	18.7	162.3	160.5	9,400	9,400	9,400	HD 758-79, RHA 1946.
L&D 03	AR Jefferson, Lincoln	Arkansas R	N	8.3	182.3	180.0	3,180	3,180	3,180	HD 758-79, RHA 1946.
L&D 04	AR Jefferson	Arkansas R	N	12.9	196.3	194.0	5,820	5,820	5,820	HD 758-79, RHA 1946.
L&D 05	AR Jefferson	Arkansas R	N	14.4	213.3	211.0	6,900	6,900	6,900	HD 758-79, RHA 1946.
L&D 06, David D. Terry	AR Pulaski	Arkansas R	N	9.6	231.3	229.0	4,830	4,830	4,830	HD 758-79.
L&D 07, Murray	AR Pulaski	Arkansas R	N	24.7	249.7	247.0	10,350	10,350	10,350	RHA 1946.
L&D 08, Toad Suck Ferry	AR Faulkner, Perry	Arkansas R	N	8.7	265.3	263.0	3,600	3,600	3,600	RHA 1946.
L&D 09, Arthur V. Ormond L&D, W. Rockfeller Lk	AR Conway	Arkansas R	N	15.8	287.0	284.0	4,910	4,910	4,910	HD 758-79.
L&D 10, Lk Dardanelle	AR Pope Yell	Arkansas R	NP	72.3	338.2	336.0	31,140	31,140	31,140	HD 758-79, RHA 1946.
L&D 11, Ozark-Jetta Taylor	AR Franklin	Arkansas	NPR	25.3	372.5	370.0	11,100	11,100	11,100	RHA 1946, HD 758-79.
L&D 13, James W. Trimble	AR Sebastian, Crawford	Arkansas R	N	18.1	392.0	389.0	5,200	5,200	5,200	RHA 1946.
L&D 14, W. D. Mayo	OK Sequoyah, Leflore	Arkansas R	N	0.0	413.0	0.0	1,600	0	0	PL 79-525.
L&D 15, Robert S. Kerr Res	OK Leflore, Sequoyah	Arkansas R	NP	84.7	460.0	458.0	40,760	40,760	40,760	PL 79-525.
L&D 16, Webbers Falls Res	OK Muskogee	Arkansas R	NP	32.4	490.0	487.0	9,300	9,300	9,300	PL 79-525.
L&D 17, Chouteau	OK Wagoner	Verdigris R	N	0.0	511.0	511.0	10,900	10,900	10,900	PL 79-525, HD 758-79-2.
L&D 18, Newt Graham	OK Wagoner	Verdigris R	N	0.0	532.0	532.0	1,490	1,490	1,490	PL 97-525.
Lake O' The Pines	TX Marion	Cypress Cr	F	579.5	249.5	228.5	18,700	18,700	18,700	PL 79-526.
Lavon Lk	TX Collin	East Fork, Trinity R	M	250.0	228.5	201.0	1,100	1,100	1,100	HD 533-78-2.
Lewisville Lk Garza-Little Elm Dam ...	TX Denton	Elm Fork Trinity R	M	275.6	503.5	492.0	29,450	29,450	29,450	2.87
Marion Lk	KS Marion	Cottonwood R	F	360.0	492.0	433.0	21,400	21,400	21,400	23,280
Millwood Lk	AR Little R Hempstead ..	Little R	F	525.2	532.0	515.0	39,080	39,080	39,080	12
Navarro Mills Lk	TX Navarro Hill	Richland Cr	FMAR	436.0	515.0	433.0	23,280	23,280	23,280	PL 81-516.
Nimrod Lk	AR Perry, Yell	Fourche La Fave R	F	60.2	1,358.5	1,350.5	9,050	9,050	9,050	6,200
Norfolk Lk	AR Baxter, Fulton	North Fork R	F	83.3	1,350.5	1,320.0	6,200	6,200	6,200	PL 79-526.
North Fork Lk	MO Ozark	N.F. San Gabriel R	FP	1,650.0	287.0	259.2	95,200	95,200	95,200	PL 79-526.
O. C. Fisher Lk	TX Williamson	N. Concho R	MC	153.3	259.2	252.0	29,200	29,200	29,200	HD 785-79.
Oologah Lk	TX Tom Green	Verdigris R	M	143.2	443.0	424.5	11,700	11,700	11,700	HD 498-83-2.
Optima Lk	OK Rogers	Verdigris R	F	53.2	424.5	375.3	5,070	5,070	5,070	FCA 1938.
Pat Mayse Lk	OK Texas	N. Candian R	F	307.0	373.0	342.0	18,300	18,300	18,300	PL 75-761.
Pine Cr	TX Lamar	Sanders Cr	F	731.8	580.0	552.0	30,700	30,700	30,700	FCA 1941.
Proctor Lk	OK McCurtain	Little R	FP	707.0	552.0	510.0	21,990	21,990	21,990	PL 87-874.
Sam Rayburn Res	TX Comanche	Leon R	MC	87.6	834.0	791.0	3,220	3,220	3,220	HD 591-82-2.
	TX Jasper, San August- tine, Angelina.	Angelina R	F	29.2	791.0	699.0	1,310	1,310	1,310	PL 77-228.
			F	277.2	1,938.5	1,908.0	12,700	12,700	12,700	PL 75-761.
			F	80.4	1,908.0	1,836.0	5,440	5,440	5,440	PL 74-738.
			FMN	965.6	661.0	638.0	56,800	56,800	56,800	PL 87-874.
			F	544.1	638.0	592.0	29,460	29,460	29,460	HD 88-71.
			FMRC	100.5	2,779.0	2,763.5	5,340	5,340	5,340	PL 85-500.
			F	117.7	2,763.5	2,726.0	1,335	1,335	1,335	HD 170-85-1.
			FMCR	64.6	460.5	451.0	7,680	7,680	7,680	2.
			F	119.9	451.0	415.0	5,993	5,993	5,993	HD 83-780.
			FMAC	388.1	480.0	443.5	4,980	4,980	4,980	HD 981-76-1.
			F	77.6	443.5	414.0	700	700	700	HD 535-81-
			F	310.1	1,197.0	1,162.0	4,610	4,610	4,610	2.
			F	1,099.4	173.0	164.4	114,500	114,500	114,500	HD 981-76-1.

APPENDIX E TO § 222.5—LIST OF PROJECTS—Continued

Project name ¹	State/county	Stream ¹	Project purpose ²	Storage 1,000 AF	Elev limits feet M.S.L.		Area in acres		Auth legis ³
					Upper	Lower	Upper	Lower	
Santa Rosa	NM Guadalupe	Pecos R	PMC F	1,446.2 340.0	164.4 4,746.2	149.0 4,776.5	114,500 10,740	74,040 3,823	PL 83–780.
Sardis	OK Pushmatah	Jackfork Cr	FI F	160.0 122.6	4,776.5 607.0	4,746.2 599.0	7,115 16,960	3,823 13,610	HD 602–79–2.
Somerville Lk	TX Washington, Lee, Burleson.	Yegua Cr	FMR F	274.2 337.7	599.0 258.0	542.0 238.0	13,610 24,400	40 11,460	PL 83–780.
Statook	OK Osage	Honiny Cr	M F	143.9 178.0	238.0 729.0	200.0 714.0	11,460 13,690	0 10,190	HD 563–87.
Stillhouse H. Lk	TX Bell	Lampasas R	FMARC F	311.6 390.6	714.0 666.0	657.0 622.0	10,190 11,830	1,430 6,430	PL 83–780.
Table Rock Lk	MO Taney, Stone, Barry AR Carroll, Boone	White R	M F	204.9 760.0	622.0 931.0	498.0 915.0	6,430 52,250	0 43,070	PL 77–228.
Tenkiller Ferry Lk	OK Cherokee, Sequoyah	Illinois R	FP F	1,181.50 576.7	915.0 667.0	881.0 632.0	43,070 20,800	27,300 12,900	FCA 1938. RHA 1946.
Texoma Lk, Denton Dam	TX Marshall	Red R	FP F	371.0 2,669.0	632.0 640.0	594.5 617.0	12,900 144,000	7,370 88,000	PL 75–761.
Toronto Lk	OK Bryan, Cook, Gray- son.	Verdigris R	FPM F	1,612.0 179.8	617.0 931.0	590.0 901.5	88,000 11,740	41,000 2,660	HD 440–76–1.
Trinidad Lk	KS Woodson	Purgatorie R	FMA F	10.7 58.0	901.5 6,260.0	896.7 6,230.0	2,660 2,107	1,720 1,453	PL 85–500.
Two Rivers Dam	CO Las Animas	Rio Hondo R	FI F	20.0 150.0	6,230.0 4,032.0	0.0 3,945.0	1,453 4,806	0 0	PL 83–780.
Waco Lk	NM Chaves	Bosque R	M F	3.3 100.8	500.0 455.0	455.0 370.0	19,440 7,240	7,270 0	PL 83–780.
Waurika Lk	TX Mclellan	Beaver Cr	M F	140.4 199.7	962.5 951.4	951.4 910.0	15,000 10,100	10,100 830	HD 535–81–2. PL 88–253.
Whitney Lk	OK Jefferson	Brazos R	FMCAR F	1,372.0 381.9	571.0 533.0	533.0 425.0	23,560 23,560	23,560 475	PL 77–228. HD 390–76–1.
Wister Lk	OK Lefflore	Pouteau R	PM F	387.0 2,363.7	502.5 259.5	474.6 220.0	23,070 119,700	5,000 20,300	PL 75–761. PL 79–526.
Wright Patman Lk	TX Bowie, Cass	Sulphur R	F FM	142.7	220.0	180.0	20,300	0	

¹ Res—Reservoir; Lk—Lake; Div—Diversion; R—River; Cr—Creek; Fk—Fork; L&D—Lock & Dam; GIWW—Gulf Intracoastal Waterway; FG—Floodgate; CS—Control Structure; DS—Drainage Structure; PS—Pump Station.
² F—Flood Control; N—Navigation; P—Hydropower; I—Irrigation; M—Municipal and/or Industrial Water/Supply; C—Fish and Wildlife Conservation; R—Recreation; A—Low Flow Augmentation or Pollution Abatement; Q—Quality or Silt Control.
³ PL—Public Law; HD—House Document; RHA—River & Harbor Act; PW—Public Works; FCA—Flood Control Act; WSA—Water Supply Act.

[47 FR 44544, Oct. 8, 1982, as amended at 52 FR 15804, Apr. 30, 1987; 52 FR 23816, June 25, 1987; 57 FR 35757, Aug. 11, 1992. Redesignated at 60 FR 19851, Apr. 21, 1995]